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NEWS	2	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	3	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	6	JUN 25	CA/CAPLUS and USPAT databases updated with IPC reclassification data
NEWS	7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	11	JUL 28	CA/CAPLUS patent coverage enhanced
NEWS	12	JUL 28	EPFULL enhanced with additional legal status information from the epoline Register
NEWS	13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	14	JUL 28	STN Viewer performance improved
NEWS	15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	16	AUG 13	CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	18	AUG 15	CAPLUS currency for Korean patents enhanced
NEWS	19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS	21	SEP 25	CA/CAPLUS current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS	22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced
NEWS	23	SEP 29	IFICLS enhanced with new super search field
NEWS	24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS	25	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents
NEWS	26	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	27	OCT 07	Multiple databases enhanced for more flexible patent number searching

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 09:26:42 ON 09 OCT 2008

=> file reg		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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chain nodes :
1  2  3  4  5  6  7  8  9  10  11  12
chain bonds :
1-2  1-11  1-12  2-3  3-4  4-5  4-10  5-6  5-9  6-7  7-8
exact/norm bonds :
1-2  1-11  1-12  2-3  3-4  4-10  5-6  5-9  6-7  7-8
exact bonds :
4-5

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G1:H,Ak

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Match level :
1:CLASS  2:CLASS  3:CLASS  4:CLASS  5:CLASS  6:CLASS  7:CLASS  8:CLASS  9:CLASS
10:Atom  11:Atom  12:CLASS

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L1 STRUCTURE UPLOADED

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=> s l1 sss sam
SAMPLE SEARCH INITIATED 09:27:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        201 TO ITERATE

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100.0% PROCESSED        201 ITERATIONS        13 ANSWERS
SEARCH TIME: 00.00.01

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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                          BATCH  **COMPLETE**
PROJECTED ITERATIONS:            3170 TO        4870
PROJECTED ANSWERS:                44 TO        476

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L2 13 SEA SSS SAM L1

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FULL SEARCH INITIATED 09:27:53 FILE 'REGISTRY'

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FULL SCREEN SEARCH COMPLETED - 3926 TO ITERATE

100.0% PROCESSED 3926 ITERATIONS 183 ANSWERS
SEARCH TIME: 00.00.01

L3 183 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

178.36

178.57

FILE 'CAPLUS' ENTERED AT 09:28:00 ON 09 OCT 2008

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FILE COVERS 1907 - 9 Oct 2008 VOL 149 ISS 15

FILE LAST UPDATED: 8 Oct 2008 (20081008/ED)

Caplus now includes complete International Patent Classification (IPC) reclassification data for the second quarter of 2008.

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l3

L4 26 L3

=> d ibib abs hitstr 26

L4 ANSWER 26 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1961:99448 CAPLUS

DOCUMENT NUMBER: 55:99448

ORIGINAL REFERENCE NO.: 55:18724i,18725a-h

TITLE: Highly active anesthetics derived from falicaïne:

β -[4-alkoxy (and 4-alkyl)-3-pipecolinol]propiofenones and thienones

Profft, E.; Schulz, G.

AUTHOR(S):

CORPORATE SOURCE: Tech. Hochschule, Leuna-Merseburg, Germany

SOURCE: Archiv der Pharmazie und Berichte der Deutschen

Pharmazeutischen Gesellschaft (1961), 294, 292-301

CODEN: APBDAJ; ISSN: 0376-0367

DOCUMENT TYPE:

Journal

LANGUAGE:

Unavailable

OTHER SOURCE(S):

CASREACT 55:99448

AB Tech. β (and γ)-picoline (50 g.), 300 ml. AcOH, and 85 ml. H₂O₂

heated 12 hrs. at 70-80°, the solution concentrated in vacuo, alkalinized with

saturated K₂CO₃, extracted with CHCl₃, and the CHCl₃ residue distilled at 12-15 mm.

gave 4 g. 2,6-lutidine N-oxide (I), 8 g. mixture of I and β -picoline N-oxide (II), and 30 g. mixture of II and γ -picoline N-oxide. The last fraction (200 g.) was dissolved with cooling in 520 ml. H₂SO₄ and 400 ml. HNO₃, the solution slowly heated to 80-5°, warmed spontaneously to 100° with external cooling, after 20 min. heated 3-4 hrs. at 100-5°, chilled, poured on ice, and treated with K₂CO₃ until 130 g. 4-NO₂ derivative (III) of II, separated, m. 136°. To 10 g. III in 50 ml. boiling alc. was added HCl gas over 4 hrs., the alc. removed, and the residue extracted with CHCl₃ to give 69.5% 4-Cl derivative (IV) of II, m. 124°. IV (3 g.), 0.5 g. Na, and 80-100 ml. ROH was refluxed 2 hrs., the mixture filtered hot, the filtrate evaporated, dissolved in hot

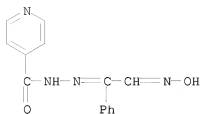
AcOEt, filtered, concentrated, and the 4-RO derivative (V) of II precipitated with Et₂O (R, m.p.,

and % yield given): Pr, 77°, 80; Bu, 68°, 79.3; amyl, 58°, 71; Me(CH₂)₅, 49°, 64; Me(CH₂)₆, 56°, 57.9; Me(CH₂)₇, 69°, 50.3; iso-Pr, 73°, 83; iso-Bu, 79-80°, 74; iso-Am, 61°, 66.2. Refluxing 2 g. IV with 5 ml. H₂NCH₂CH₂OH 2 hrs. gave 70.4% 4-(β -aminoethoxy) derivative of II.HCl, m. 159°. V (0.02 mole) in 50 ml. 2N H₂SO₄ at 60-70° was treated portionwise with 4.5 g. Zn and kept 8 hrs. to give 4-alkoxy- β -picoline (alkoxy group, b.p., % yield, n₂₀D and m.p. of methiodide given): MeO, b12 105-7°, 86.5, 1.5103, 133°; EtO, b12 109-11°, 81.6, 1.5042, 111°; PrO (VI), b4 94-6°, 85.8, 1.5016, 96°; BuO, b4 99°, 78.6, 1.4979, 91°; Me(CH₂)₄O, b7 128°, 75.4, 1.4960, 98°; Me(CH₂)₅O, b4 105-6°, 72.2, 1.4937, 105°; Me(CH₂)₆O, b4 110-11°, 72, 1.4886, 111°; Me(CH₂)₇O, b4 117-19°, 70.1, 1.4856, 119°; iso-PrO, b4 93°, 82.6, 1.4998, 93°; iso-BuO, b4 97-9°, 81.5, 1.4953, 101°; isoamyl, b4 103-5°, 80.9, 1.4939, 107°. VI (30 g.) and 5 g. Raney Ni was reduced at 150°/200 atmospheric 12 hrs. to give 25.7% 4-propoxy- β -picopline (VII), b5 89-91°, n₂₀D 1.4920; chlorplatinate m. 192°. Heating 3.9 g. VII.HCl, 10 ml. p-PrOC₆H₄COMe (VIII), 0.5 g. paraformaldehyde, and a drop of concentrated HCl 10 hrs. at 100° gave 10.4% the Mannich base HCl salt, m. 168°, a very weak local anesthetic. To 2 l. liquid NH₃ was added a few crystals of Fe(NO₃)₃ and 12.5 g. Na, then quickly 0.5 mole 3,4-lutidine, and after 10 min. 0.5 mole RCl dropwise, the NH₃ evaporated, the residue treated with 2N Na₂CO₃ steam distilled, the distillate acidified with HCl, concentrated to 50 ml., alkalinized with NaOH, and Et₂O-extracted to give 4-alkyl- β -picopline (IX), oxidized with H₂O₂ in AcOH to the N-oxide (X), which was reduced with Na in alc. to the β -picopline derivative (XI) (R, b.p., % yield, n₂₀D, m.p. of methiodide of IX, m.p., % yield, m.p. of picrate of X, b.p., % yield, n₂₀D, and m.p. of HCl salt of XI given): Me (XII), -, -, -, 85°, 78.7, 149°, 162°, 71, 1.4782, 155-6°; Et (XIII), 195-7°, 48.9, 1.5082, 122°, 102°, 79.4, 141°, 191°, 73.4, 1.4769, 146°; Pr (XIV), 205-7°, 32.9, 1.5041, 103°, 106°, 71.5, 121°, 193-5°, 70.6, 1.4756, 116°; Bu (XV), b12 101-3°, 18.3, 1.4990, 98°, 113°, 68.7, 107-8°, 201°, 60.4, 1.4721, 94°. XI.HCl (1 g.) in 10 ml. alc. was treated under Mannich conditions as above with 4 g. VIII, 5 g. 5-propyl-2-acetothienone (XVI), or 5 g. 5-isoamyl-2-acetothienone (XVII) to give the Mannich base (ketone, 4-alkyl- β -picopline, m.p., and % yield given): VIII, XII, 179°, 72.6; VIII, XIII, 171°, 64.7; VIII, XIV, 166°, 62.8; VIII, XV, 160-1°, 55.2; XVI, XII, 196°, 63.6; XVI, XIII, 187°, 57.1; XVI, XIV, 180°, 59.6; XVI, XV, 176°, 61.7; XVII, XII, 201°, 52; XVII, XIV, 189°, 53.1. The compds. showed good local anesthetic properties.

IT 106271-24-3

(Derived from data in the 6th Collective Formula Index (1957-1961))

RN 106271-24-3 CAPLUS
 CN 4-Pyridinecarboxylic acid, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)

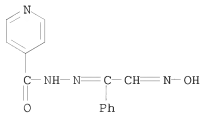


=> d ibib abs hitstr 25

L4 ANSWER 25 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1961:99449 CAPLUS
 DOCUMENT NUMBER: 55:99449
 ORIGINAL REFERENCE NO.: 55:18725h-i,18726a
 TITLE: Condensation of hydrazides and isonitroso ketones
 AUTHOR(S): Giammanco, Lorenzo
 CORPORATE SOURCE: Univ. Palermo, Italy
 SOURCE: Annali di Chimica (Rome, Italy) (1961), 51, 175-80
 CODEN: ANCRAI; ISSN: 0003-4592
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable

AB The title-indicated condensation products were of biol. interest by virtue of the presence of the tuberculostatically active-CONHNC: group and the :NOH group which imparted important antiparasitic, fungicidal and bactericidal properties. The compds. were prepared by the reaction of various hydrazides and isonitroso ketones using 95% EtOH to dissolve the reagents, either separately or together, and refluxing, or combining the reagent solns. In one case, NaOAc was added before refluxing and the product recovered by Et2O extraction The following compds. were prepared (R = 4-pyridyl, R1 = 2-methyl-4-isoxazolyl) (formula, and m.p. given):
 RCONHN:CMcCH:NOH, 185-7°; RCONHN:CMcCMe:NOH, 244°;
 RCONHN:CPhCH:NOH, 208 9°; AcNHN:CMcCH:NOH, 185°;
 AcNHN:CMcCMe:NOH, 240°; AcNHN:CPhCH:NOH, 157-8°;
 RCONHN:CMcCH:NOH, 214°; R'CONHN:CMcCMe:NOH, 229°;
 R'CONHN:CPhCH:NOH, 225°; R'CONHN:CPhC(CO2Et): NOH, 235°.

IT 106271-24-3
 (Derived from data in the 6th Collective Formula Index (1957-1961))
 RN 106271-24-3 CAPLUS
 CN 4-Pyridinecarboxylic acid, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



IT 100725-09-5P, Hydrazine, 1- α -formylbenzylidene-2-(5-methyl-3-

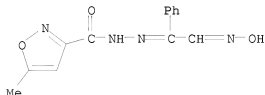
isoxazolylcarbonyl)-, oxime 856640-00-1P, Hydrazine,
1-(α -carboxycarbonylbenzylidene)-2-(5-methyl-3-isoxazolylcarbonyl)-,
ethyl ester, oxime

RL: PREP (Preparation)

(preparation of)

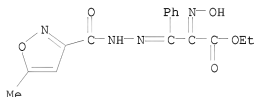
RN 100725-09-5 CAPLUS

CN 3-Isioxazolecarboxylic acid, 5-methyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



RN 856640-00-1 CAPLUS

CN 3-Isioxazolecarboxylic acid, 5-methyl-, 2-[3-ethoxy-2-(hydroxyimino)-3-oxo-1-phenylpropylidene]hydrazide (CA INDEX NAME)



=> d ibib abs hitstr 1-24

L4 ANSWER 1 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2008:10602 CAPLUS

DOCUMENT NUMBER: 148:113191

TITLE: Methods for identifying modulators of Eoxin formation

INVENTOR(S): Claesson, Hans-Erik; Bjoerkholm, Magnus

PATENT ASSIGNEE(S): Biolipox AB, Swed.; Pilkington, Stephanie

SOURCE: PCT Int. Appl., 126pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2008001079	A1	20080103	WO 2007-GB2394	20070627
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, PL, PT, RO, SE, SI, SK, TR, BF,				

BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW,
GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.:

SE 2006-1394

A 20060627

AB A method for identifying a compound for modulating the formation of 14,15-LTC₄ (Eoxin C₄; EoxC₄), 14,15-LTD₄ (Eoxin D₄; EoxD₄), or 14,15-LTE₄ (Eoxin E₄; EoxE₄) in a biol. system. A method for identifying a compound with an anti-inflammatory effect, the method comprising testing the compound for an effect on formation and/or activity of 14,15-LTC₄ (Eoxin C₄; EoxC₄), 14,15-LTD₄ (Eoxin D₄; EoxD₄), or 14,15-LTE₄ (Eoxin E₄; EoxE₄) in a biol. system. A method of making an anti-inflammatory composition or Eoxin formation-modulating composition comprising (i) identifying an anti-inflammatory compound or Eoxin formation-modulating compound by a method of the invention; (ii) combining the compound with a pharmaceutically acceptable excipient or carrier.

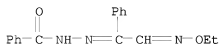
IT 864446-67-3P 864447-06-3P

RL: PAC (Pharmacological activity); PRPH (Prophetic); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(Eoxin formation inhibition by; methods for identifying modulators of Eoxin formation as anti-inflammatory agents and bone loss inhibitors and for Eoxins to promote inflammation)

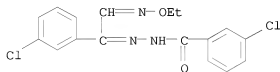
RN 864446-67-3 CAPLUS

CN Benzoic acid, 2-[2-(ethoxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



RN 864447-06-3 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[1-(3-chlorophenyl)-2-(ethoxyimino)ethylidene]hydrazide (CA INDEX NAME)



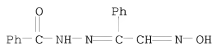
IT 58644-42-1P

RL: PRPH (Prophetic); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(methods for identifying modulators of Eoxin formation as anti-inflammatory agents and bone loss inhibitors and for Eoxins to promote inflammation)

RN 58644-42-1 CAPLUS

CN Benzoic acid, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



REFERENCE COUNT:

9

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2007:864716 CAPLUS

DOCUMENT NUMBER: 149:346067

TITLE: Synthesis and characterization of copper(II) and nickel(II) complexes of isonitrosoacetophenone 4-aminobenzoylhydrazone

AUTHOR(S): Usluer, O.; Gup, R.

CORPORATE SOURCE: Department of Chemistry, Faculty of Arts and Science, Mugla University, Mugla, 48000, Turk.

SOURCE: Polish Journal of Chemistry (2007), 81(7), 1257-1265
CODEN: PJCHDQ; ISSN: 0137-5083

PUBLISHER: Polish Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

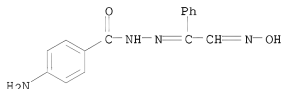
AB Two types of copper complexes as well as an oximate bridged nickel complex with a new tridentate ligand containing a monoxime and hydrazone moieties were prepared and characterized by elemental analyses, IR, ¹H NMR, UV-visible and magnetic susceptibility measurements. The reaction of isonitrosoacetophenone 4-aminobenzoylhydrazone (H2L) with CuCl₂·2H₂O gives [Cu(H2L)Cl₂] where the ligand acts as a neutral O,N,N-tridentate and the coordination takes place in the keto form. The acylhydrazonoxime ligand reacts with copper(II) and nickel(II) acetate in the presence of the strong base to produce common bimetal(II) oximate complex, [M(L)]₂ in which two copper(II) and nickel(II) atoms are bridged through two N-O bridges of the oximate ligand to afford a binuclear structure. The effects of varying pH and solvent on the absorption behavior of both ligand and complexes were studied.

IT 1055310-72-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and complexation with copper(II) and nickel(II))

RN 1055310-72-9 CAPLUS

CN INDEX NAME NOT YET ASSIGNED



REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2006:1052073 CAPLUS

DOCUMENT NUMBER: 146:162783

TITLE: Metal complexes and solvent extraction properties of isonitrosoacetophenone 2-aminobenzoylhydrazone

AUTHOR(S): Gup, Ramazan; Giziroglu, Emrah

CORPORATE SOURCE: Department of Chemistry, Mugla University, Mugla, 48000, Turk.

SOURCE: Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy (2006), 65A(3-4), 719-726
CODEN: SAMCAS; ISSN: 1386-1425

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 146:162783

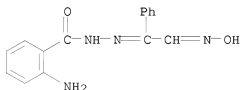
AB Preparation, spectral, metal-coordination/extraction properties of isonitrosoacetophenone, aminobenzoylhydrazide were described. Three types of copper complexes as well as an oximate-bridged nickel complex with isonitrosoacetophenone 2-aminobenzoylhydrazide (H2L) have been synthesized in ethanolic solution and characterized by elemental analyses, IR, UV-vis and magnetic susceptibility measurement. IR spectra show the ligand coordinates as a neutral, monoanionic and dianionic O,N,N-tridentate acylhydrazideoxime ligand depending reaction conditions and metal salts employed. The elemental analyses results, spectroscopic and magnetic data are consistent with the formation of mononuclear copper complexes and binuclear complexes with both copper and nickel. The effects of varying pH and solvent on the absorption behavior of both ligand and complexes have been investigated. The extraction ability of acylhydrazideoxime ligand has been examined by the liquid-liquid extraction of selected transition metal

[Cu2+, Ni2+, Co2+, Cr3+, Hg2+, Zn2+, Cd2+ and Mn2+] cations. The ligand shows strong binding ability toward copper(II) ion.

IT 864446-48-0P
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
 (preparation, spectral, metal-coordination/extraction properties of isonitrosoacetophenone aminobenzoylhydrazide)

RN 864446-48-0 CAPLUS

CN Benzoic acid, 2-amino-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 26 CAPLUS COPYRIGHT 2008 ACS ON STN

ACCESSION NUMBER: 2005:1004552 CAPLUS

DOCUMENT NUMBER: 143:286177

TITLE: Preparation of benzohydrazide lipoxigenase inhibitors useful in the treatment of inflammatory diseases

INVENTOR(S): Olofsson, Kristofer; Pelcman, Benjamin; Nilsson, Peter; Schaal, Wesley; Hallberg, Anders

PATENT ASSIGNEE(S): Biolipox AB, Swed.

SOURCE: PCT Int. Appl., 119 pp.

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DOCUMENT TYPE: Patent

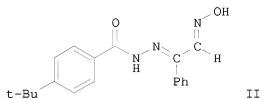
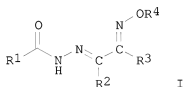
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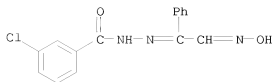
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005084656	A1	20050915	WO 2005-GB780	20050302
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 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
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 EP 1725227 A1 20061129 EP 2005-717858 20050302
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 JP 2007526290 T 20070913 JP 2007-501342 20050302
 US 20080227787 A1 20080918 US 2006-590450 20061127
 PRIORITY APPLN. INFO.: US 2004-549143P P 20040303
 WO 2005-GB780 W 20050302
 OTHER SOURCE(S): CASREACT 143:286177; MARPAT 143:286177
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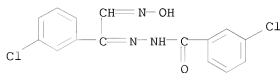


- AB The invention is related to the use of benzohydrazides of formula (I) [R1, R2 = independently (un)substituted hetero/aryl; R3, R4 = independently H, (un)substituted alkyl], their geometrical isomers and pharmaceutically acceptable salts for the manufacture of a medicament for the treatment of a disease in which inhibition of the activity of a lipoxigenase, particularly 15-lipoxigenase, is desired and/or required, such as inflammation (no data). The invention is also related to the preparation of compds. I. Thus, reacting 4-tert-butylbenzoic hydrazide with 2-isonitrosoacetophenone gave hydrazide II in 22% yield. I was found to exhibit at least 50% inhibition of 15-lipoxigenase at a concentration of 10 μ M or below.
- IT 864445-94-3P, 3-Chloro-N'-[2-(hydroxyimino)-1-phenylethylidene]benzoic hydrazide 864447-00-7P, 3-Chloro-N'-[2-(hydroxyimino)-1-(3-chlorophenyl)ethylidene]benzoic hydrazide
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (drug candidate; preparation of benzohydrazide lipoxigenase inhibitors useful in treatment of inflammatory diseases)
- RN 864445-94-3 CAPLUS
 CN Benzoic acid, 3-chloro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



RN 864447-00-7 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



IT 93721-80-3P, 3-Nitro-N'-[2-(hydroxyimino)-1-phenylethylidene]benzoic hydrazide 94064-01-4P, N'-[2-(Hydroxyimino)-1-(4-chlorophenyl)ethylidene]benzoic hydrazide 376613-83-1P, N'-[2-(Hydroxyimino)-1-phenylethylidene]-3,4-dimethoxybenzoic hydrazide 864445-91-0P, 4-tert-Butyl-N'-[2-(hydroxyimino)-1-phenylethylidene]benzoic hydrazide 864445-92-1P, 3-Bromo-N'-[2-(methoxyimino)-1-phenylethylidene]benzoic hydrazide 864445-93-2P, N'-[2-(Hydroxyimino)-1-phenylethylidene]-3-methoxybenzoic hydrazide 864445-95-4P, N'-[2-(Hydroxyimino)-1-phenylethylidene]thiophene-2-carboxylic hydrazide 864445-96-5P, 4-Chloro-N'-[2-(hydroxyimino)-1-phenylethylidene]benzoic hydrazide 864445-97-6P, 2-Bromo-N'-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]benzoic hydrazide 864445-98-7P, N'-[1-(2-Chlorophenyl)-2-(hydroxyimino)ethylidene]benzoic hydrazide 864445-99-8P, N'-[2-(Hydroxyimino)-1-(4-methoxyphenyl)ethylidene]benzoic hydrazide 864446-00-4P, N'-[2-(Hydroxyimino)-1-(3-hydroxyphenyl)ethylidene]benzoic hydrazide 864446-01-5P, N'-[1-(4-Bromophenyl)-2-(hydroxyimino)ethylidene]benzoic hydrazide 864446-02-6P, N'-[2-(Hydroxyimino)-1-phenylethylidene]-3,5-bis(trifluoromethyl)benzoic hydrazide 864446-03-7P, 2-Bromo-N'-[1-(2-fluorophenyl)-2-(hydroxyimino)ethylidene]benzoic hydrazide 864446-04-8P, N'-[1-(3-Chlorophenyl)-2-(hydroxyimino)ethylidene]benzoic hydrazide 864446-05-9P, N'-[1-(3-Chlorophenyl)-2-(hydroxyimino)ethylidene]-2-methylbenzoic hydrazide 864446-06-0P, 3-Bromo-N'-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]benzoic hydrazide 864446-07-1P, 3-Bromo-N'-[2-(hydroxyimino)-1-(3-hydroxyphenyl)ethylidene]benzoic hydrazide 864446-08-2P, 3-Bromo-N'-[1-(4-bromophenyl)-2-(hydroxyimino)ethylidene]benzoic hydrazide 864446-09-3P, N'-[1-(3-Chlorophenyl)-2-(hydroxyimino)ethylidene]-2-fluorobenzoic hydrazide 864446-10-6P, 4-Phenyl-N'-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]benzoic hydrazide 864446-11-7P, 3-Bromo-N'-[2-(hydroxyimino)-1-(3-methoxyphenyl)ethylidene]benzoic hydrazide 864446-13-9P, 3-Bromo-N'-[2-(hydroxyimino)-1-(4-methoxyphenyl)ethylidene]benzoic hydrazide 864446-14-0P, N'-[1-(2-Fluorophenyl)-2-(hydroxyimino)ethylidene]-4-phenylbenzoic hydrazide 864446-15-1P, 4-tert-Butyl-N'-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]benzoic hydrazide 864446-16-2P, N'-[2-(Hydroxyimino)-1-(3-methoxyphenyl)ethylidene]benzoic hydrazide 864446-17-3P, 3-Bromo-N'-[1-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]benzoic

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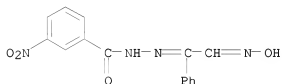
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 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of benzohydrazide lipoxygenase inhibitors useful in treatment of inflammatory diseases)

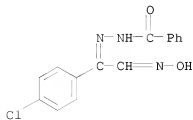
RN 93721-80-3 CAPLUS

CN Benzoic acid, 2-nitro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



RN 94064-01-4 CAPLUS

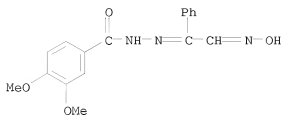
CN Benzoic acid, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



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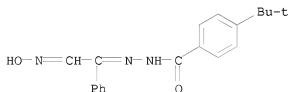
CN Benzoic acid, 3,4-dimethoxy-, 2-[2-(hydroxyimino)-1-

phenylethylidene]hydrazide (CA INDEX NAME)



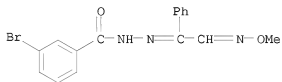
RN 864445-91-0 CAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



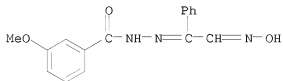
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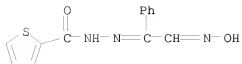
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CN Benzoic acid, 3-methoxy-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



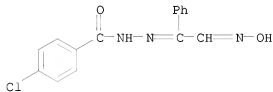
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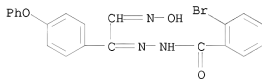
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(CA INDEX NAME)



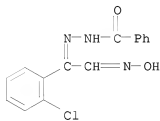
RN 864445-97-6 CAPLUS

CN Benzoic acid, 2-bromo-, 2-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)



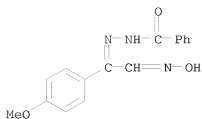
RN 864445-98-7 CAPLUS

CN Benzoic acid, 2-[1-(2-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide
(CA INDEX NAME)



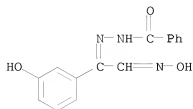
RN 864445-99-8 CAPLUS

CN Benzoic acid, 2-[2-(hydroxyimino)-1-(4-methoxyphenyl)ethylidene]hydrazide
(CA INDEX NAME)



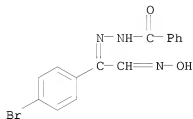
RN 864446-00-4 CAPLUS

CN Benzoic acid, 2-[2-(hydroxyimino)-1-(3-hydroxyphenyl)ethylidene]hydrazide
(CA INDEX NAME)



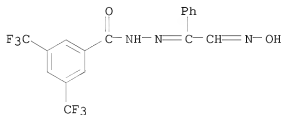
RN 864446-01-5 CAPLUS

CN Benzoic acid, 2-[1-(4-bromophenyl)-2-(hydroxyimino)ethylidene]hydrazide
(CA INDEX NAME)



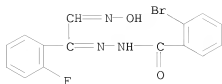
RN 864446-02-6 CAPLUS

CN Benzoic acid, 2-bromo-, 2-[1-(2-fluorophenyl)-2-phenylethylidene]hydrazide (CA INDEX NAME)



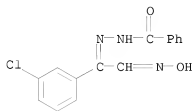
RN 864446-03-7 CAPLUS

CN Benzoic acid, 2-bromo-, 2-[1-(2-fluorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



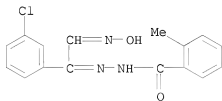
RN 864446-04-8 CAPLUS

CN Benzoic acid, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide
(CA INDEX NAME)



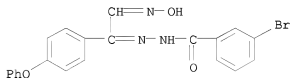
RN 864446-05-9 CAPLUS

CN Benzoic acid, 2-methyl-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



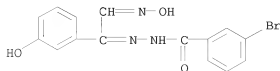
RN 864446-06-0 CAPLUS

CN Benzoic acid, 3-bromo-, 2-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)

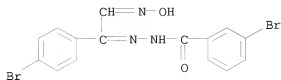


RN 864446-07-1 CAPLUS

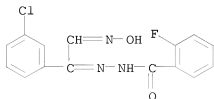
CN Benzoic acid, 3-bromo-, 2-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)



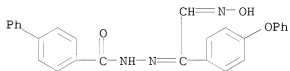
CN Benzoic acid, 3-bromo-, 2-[1-(4-bromophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



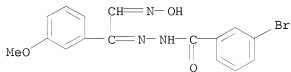
CN Benzoic acid, 2-fluoro-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



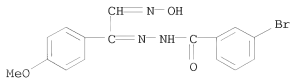
CN [1,1'-Biphenyl]-4-carboxylic acid, 2-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)



CN Benzoic acid, 3-bromo-, 2-[2-(hydroxyimino)-1-(3-methoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)

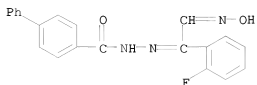


CN Benzoic acid, 3-bromo-, 2-[2-(hydroxyimino)-1-(4-methoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)



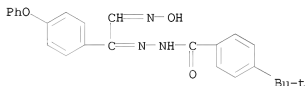
RN 864446-14-0 CAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 2-[1-(2-fluorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



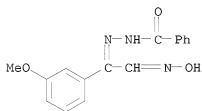
RN 864446-15-1 CAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, 2-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)



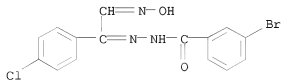
RN 864446-16-2 CAPLUS

CN Benzoic acid, 2-[2-(hydroxyimino)-1-(3-methoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)



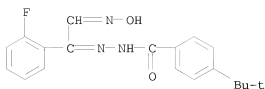
RN 864446-17-3 CAPLUS

CN Benzoic acid, 3-bromo-, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



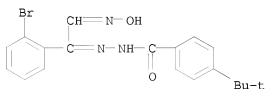
RN 864446-18-4 CAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, 2-[1-(2-fluorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



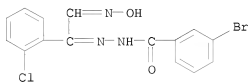
RN 864446-19-5 CAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, 2-[1-(2-bromophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



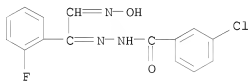
RN 864446-20-8 CAPLUS

CN Benzoic acid, 3-bromo-, 2-[1-(2-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



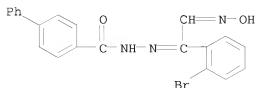
RN 864446-22-0 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[1-(2-fluorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



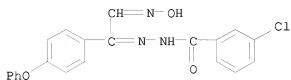
RN 864446-24-2 CAPLUS

CN [1,1'-Biphenyl]-4-carboxylic acid, 2-[1-(2-bromophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



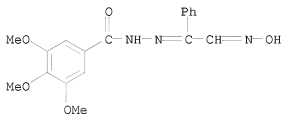
RN 864446-25-3 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[2-(hydroxyimino)-1-(4-phenoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)



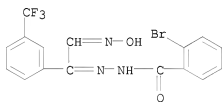
RN 864446-26-4 CAPLUS

CN Benzoic acid, 3,4,5-trimethoxy-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



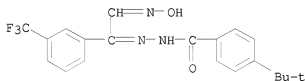
RN 864446-27-5 CAPLUS

CN Benzoic acid, 2-bromo-, 2-[2-(hydroxyimino)-1-[3-(trifluoromethyl)phenyl]ethylidene]hydrazide (CA INDEX NAME)



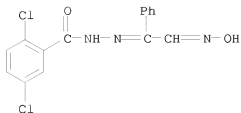
RN 864446-28-6 CAPLUS

CN Benzoic acid, 4-(1,1-dimethylethyl)-, 2-[2-(hydroxyimino)-1-[3-(trifluoromethyl)phenyl]ethylidene]hydrazide (CA INDEX NAME)

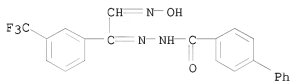


RN 864446-29-7 CAPLUS

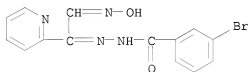
CN Benzoic acid, 2,5-dichloro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



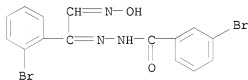
RN 864446-30-0 CAPLUS
 CN [1,1'-Biphenyl]-4-carboxylic acid, 2-[2-(hydroxyimino)-1-[3-(trifluoromethyl)phenyl]ethylidene]hydrazide (CA INDEX NAME)



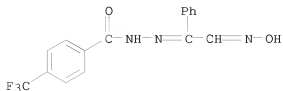
RN 864446-31-1 CAPLUS
 CN Benzoic acid, 3-bromo-, 2-[2-(hydroxyimino)-1-(2-pyridinyl)ethylidene]hydrazide (CA INDEX NAME)



RN 864446-32-2 CAPLUS
 CN Benzoic acid, 3-bromo-, 2-[1-(2-bromophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)

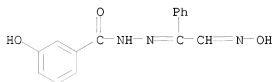


RN 864446-33-3 CAPLUS
 CN Benzoic acid, 4-(trifluoromethyl)-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



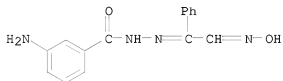
RN 864446-34-4 CAPLUS

CN Benzoic acid, 3-hydroxy-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
(CA INDEX NAME)



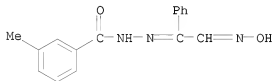
RN 864446-35-5 CAPLUS

CN Benzoic acid, 3-amino-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
(CA INDEX NAME)



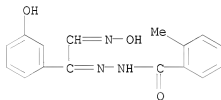
RN 864446-36-6 CAPLUS

CN Benzoic acid, 3-methyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
(CA INDEX NAME)



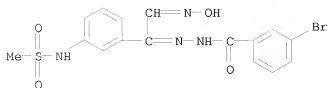
RN 864446-37-7 CAPLUS

CN Benzoic acid, 2-methyl-, 2-[2-(hydroxyimino)-1-(3-hydroxyphenyl)ethylidene]hydrazide (CA INDEX NAME)

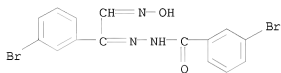


RN 864446-38-8 CAPLUS

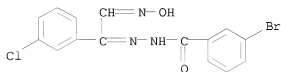
CN Benzoic acid, 3-bromo-, 2-[2-(hydroxyimino)-1-[3-(methylsulfonyl)amino]phenyl]ethylidene]hydrazide (CA INDEX NAME)



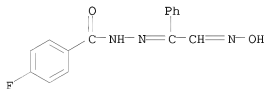
RN 864446-39-9 CAPLUS
 CN Benzoic acid, 3-bromo-, 2-[1-(3-bromophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



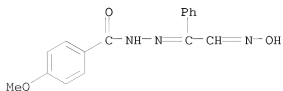
RN 864446-40-2 CAPLUS
 CN Benzoic acid, 3-bromo-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



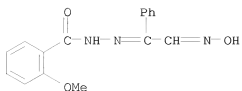
RN 864446-41-3 CAPLUS
 CN Benzoic acid, 4-fluoro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



RN 864446-42-4 CAPLUS
 CN Benzoic acid, 2-methoxy-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)

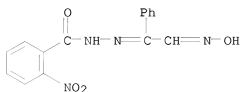


RN 864446-43-5 CAPLUS
 CN Benzoic acid, 2-methoxy-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



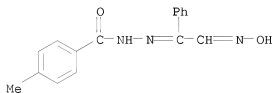
RN 864446-44-6 CAPLUS

CN Benzoic acid, 2-nitro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
(CA INDEX NAME)



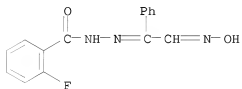
RN 864446-45-7 CAPLUS

CN Benzoic acid, 4-methyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
(CA INDEX NAME)



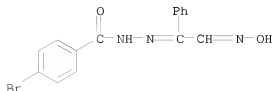
RN 864446-46-8 CAPLUS

CN Benzoic acid, 2-fluoro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
(CA INDEX NAME)

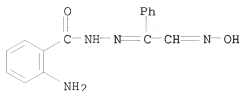


RN 864446-47-9 CAPLUS

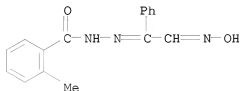
CN Benzoic acid, 4-bromo-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
(CA INDEX NAME)



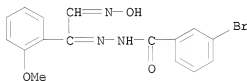
RN 864446-48-0 CAPLUS
 CN Benzoic acid, 2-amino-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
 (CA INDEX NAME)



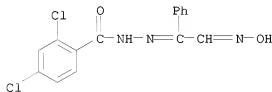
RN 864446-49-1 CAPLUS
 CN Benzoic acid, 2-methyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
 (CA INDEX NAME)



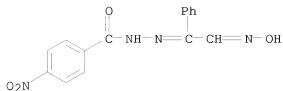
RN 864446-50-4 CAPLUS
 CN Benzoic acid, 3-bromo-, 2-[2-(hydroxyimino)-1-(2-methoxyphenyl)ethylidene]hydrazide (CA INDEX NAME)



RN 864446-51-5 CAPLUS
 CN Benzoic acid, 2,4-dichloro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)

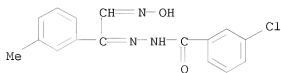


RN 864446-52-6 CAPLUS
 CN Benzoic acid, 4-nitro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
 (CA INDEX NAME)



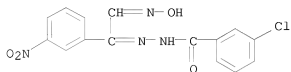
RN 864446-53-7 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[2-(hydroxyimino)-1-(3-methylphenyl)ethylidene]hydrazide (CA INDEX NAME)



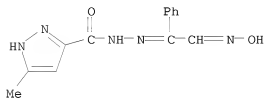
RN 864446-54-8 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[2-(hydroxyimino)-1-(3-nitrophenyl)ethylidene]hydrazide (CA INDEX NAME)



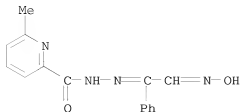
RN 864446-55-9 CAPLUS

CN 1H-Pyrazole-3-carboxylic acid, 5-methyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)

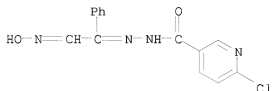


RN 864446-56-0 CAPLUS

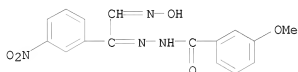
CN 2-Pyridinecarboxylic acid, 6-methyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



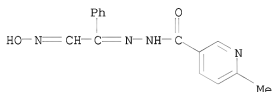
RN 864446-57-1 CAPLUS
 CN 3-Pyridinecarboxylic acid, 6-chloro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



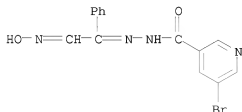
RN 864446-58-2 CAPLUS
 CN Benzoic acid, 3-methoxy-, 2-[2-(hydroxyimino)-1-(3-nitrophenyl)ethylidene]hydrazide (CA INDEX NAME)



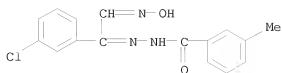
RN 864446-59-3 CAPLUS
 CN 3-Pyridinecarboxylic acid, 6-methyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



RN 864446-60-6 CAPLUS
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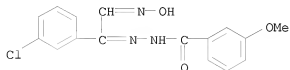


RN 864446-61-7 CAPLUS
 CN Benzoic acid, 3-methyl-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



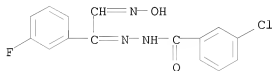
RN 864446-62-8 CAPLUS

CN Benzoic acid, 3-methoxy-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



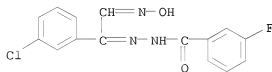
RN 864446-63-9 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[1-(3-fluorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



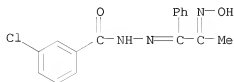
RN 864446-64-0 CAPLUS

CN Benzoic acid, 3-fluoro-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



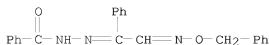
RN 864446-65-1 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[2-(hydroxyimino)-1-phenylpropylidene]hydrazide (CA INDEX NAME)



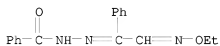
RN 864446-66-2 CAPLUS

CN Benzoic acid, 2-[1-phenyl-2-[(phenylmethoxy)imino]ethylidene]hydrazide (CA INDEX NAME)



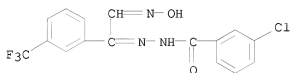
RN 864446-67-3 CAPLUS

CN Benzoic acid, 2-[2-(ethoxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



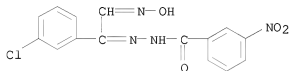
RN 864446-68-4 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[2-(hydroxyimino)-1-[3-(trifluoromethyl)phenyl]ethylidene]hydrazide (CA INDEX NAME)



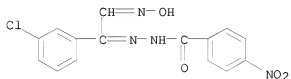
RN 864446-69-5 CAPLUS

CN Benzoic acid, 3-nitro-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



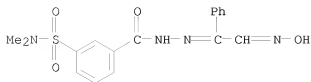
RN 864446-70-8 CAPLUS

CN Benzoic acid, 4-nitro-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



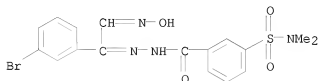
RN 864446-71-9 CAPLUS

CN Benzoic acid, 3-[(dimethylamino)sulfonyl]-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



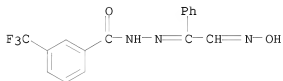
RN 864446-72-0 CAPLUS

CN Benzoic acid, 3-[(dimethylamino)sulfonyl]-, 2-[1-(3-bromophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



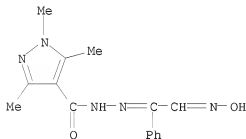
RN 864446-73-1 CAPLUS

CN Benzoic acid, 3-(trifluoromethyl)-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



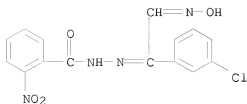
RN 864446-74-2 CAPLUS

CN 1H-Pyrazole-4-carboxylic acid, 1,3,5-trimethyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



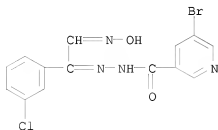
RN 864446-75-3 CAPLUS

CN Benzoic acid, 2-nitro-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



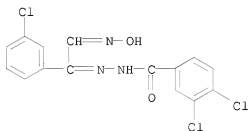
RN 864446-77-5 CAPLUS

CN 3-Pyridinecarboxylic acid, 5-bromo-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



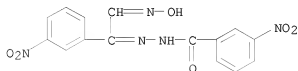
RN 864446-78-6 CAPLUS

CN Benzoic acid, 3,4-dichloro-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



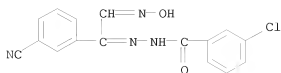
RN 864446-79-7 CAPLUS

CN Benzoic acid, 3-nitro-, 2-[2-(hydroxyimino)-1-(3-nitrophenyl)ethylidene]hydrazide (CA INDEX NAME)



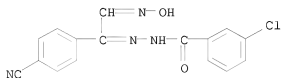
RN 864446-80-0 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[1-(3-cyanophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



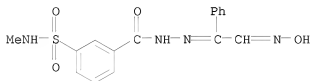
RN 864446-81-1 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[1-(4-cyanophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



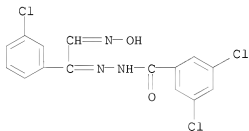
RN 864446-82-2 CAPLUS

CN Benzoic acid, 3-[(methylamino)sulfonyl]-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



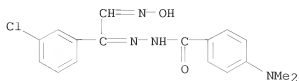
RN 864446-83-3 CAPLUS

CN Benzoic acid, 3,5-dichloro-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



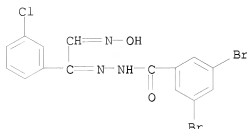
RN 864446-84-4 CAPLUS

CN Benzoic acid, 4-(dimethylamino)-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



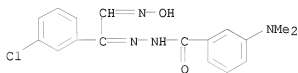
RN 864446-85-5 CAPLUS

CN Benzoic acid, 3,5-dibromo-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



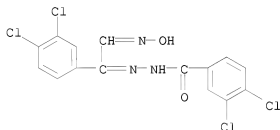
RN 864446-86-6 CAPLUS

CN Benzoic acid, 3-(dimethylamino)-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



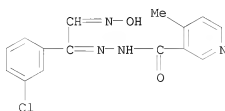
RN 864446-87-7 CAPLUS

CN Benzoic acid, 3,4-dichloro-, 2-[1-(3,4-dichlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



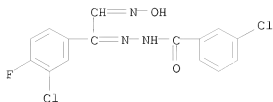
RN 864446-88-8 CAPLUS

CN 3-Pyridinecarboxylic acid, 4-methyl-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



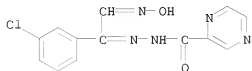
RN 864446-89-9 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[1-(3-chloro-4-fluorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



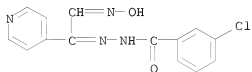
RN 864446-90-2 CAPLUS

CN 2-Pyrazinecarboxylic acid, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



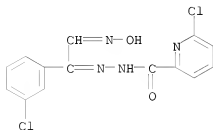
RN 864446-91-3 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[2-(hydroxyimino)-1-(4-pyridinyl)ethylidene]hydrazide (CA INDEX NAME)



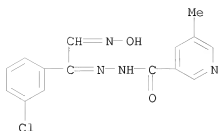
RN 864446-92-4 CAPLUS

CN 2-Pyridinecarboxylic acid, 6-chloro-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)

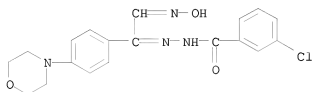


RN 864446-93-5 CAPLUS

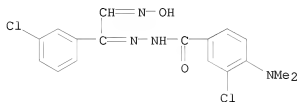
CN 3-Pyridinecarboxylic acid, 5-methyl-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



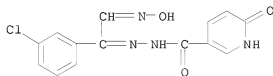
RN 864446-94-6 CAPLUS
 CN Benzoic acid, 3-chloro-, 2-[2-(hydroxyimino)-1-[4-(4-morpholinyl)phenyl]ethylidene]hydrazide (CA INDEX NAME)



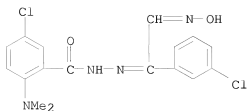
RN 864446-95-7 CAPLUS
 CN Benzoic acid, 3-chloro-4-(dimethylamino)-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



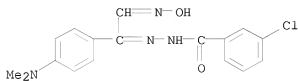
RN 864446-96-8 CAPLUS
 CN 3-Pyridinecarboxylic acid, 1,6-dihydro-6-oxo-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



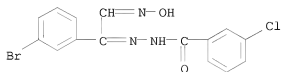
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 CN Benzoic acid, 5-chloro-2-(dimethylamino)-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



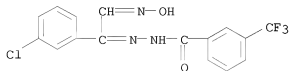
RN 864446-98-0 CAPLUS
 CN Benzoic acid, 3-chloro-, 2-[1-[4-(dimethylamino)phenyl]-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



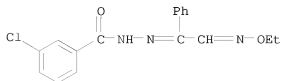
RN 864446-99-1 CAPLUS
 CN Benzoic acid, 3-chloro-, 2-[1-(3-bromophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



RN 864447-01-8 CAPLUS
 CN Benzoic acid, 3-(trifluoromethyl)-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)

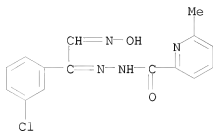


RN 864447-02-9 CAPLUS
 CN Benzoic acid, 3-chloro-, 2-[2-(ethoxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



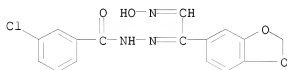
RN 864447-03-0 CAPLUS

CN 2-Pyridinecarboxylic acid, 6-methyl-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



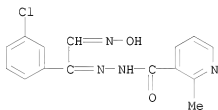
RN 864447-04-1 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[1-(1,3-benzodioxol-5-yl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



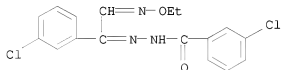
RN 864447-05-2 CAPLUS

CN 3-Pyridinecarboxylic acid, 2-methyl-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



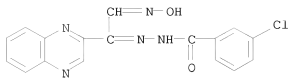
RN 864447-06-3 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[1-(3-chlorophenyl)-2-(ethoxyimino)ethylidene]hydrazide (CA INDEX NAME)



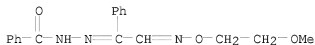
RN 864447-07-4 CAPLUS

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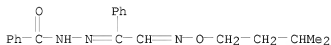
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CN Benzoic acid, 2-[2-[(2-methoxyethoxy)imino]-1-phenylethylidene]hydrazide
(CA INDEX NAME)



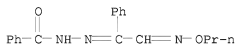
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CN Benzoic acid, 2-[2-[(3-methylbutoxy)imino]-1-phenylethylidene]hydrazide
(CA INDEX NAME)



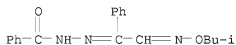
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CN Benzoic acid, 2-[1-phenyl-2-(propoxyimino)ethylidene]hydrazide (CA INDEX NAME)



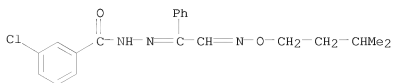
RN 864447-11-0 CAPLUS

CN Benzoic acid, 2-[2-[(2-methylpropoxy)imino]-1-phenylethylidene]hydrazide
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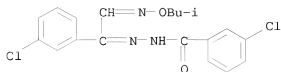
RN 864447-12-1 CAPLUS

CN Benzoic acid, 3-chloro-, 2-[2-[(3-methylbutoxy)imino]-1-phenylethylidene]hydrazide (CA INDEX NAME)



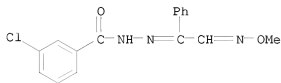
RN 864447-13-2 CAPLUS

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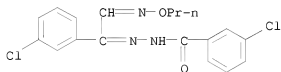
RN 864447-14-3 CAPLUS

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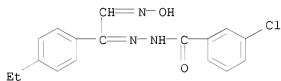
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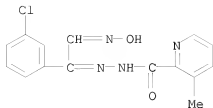
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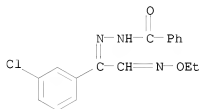


RN 864447-18-7 CAPLUS

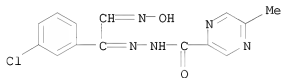
CN 2-Pyridinecarboxylic acid, 3-methyl-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



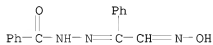
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 CN Benzoic acid, 2-[1-(3-chlorophenyl)-2-(ethoxyimino)ethylidene]hydrazide
 (CA INDEX NAME)



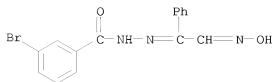
RN 864447-20-1 CAPLUS
 CN 2-Pyrazinecarboxylic acid, 5-methyl-, 2-[1-(3-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



IT 58644-42-1 419537-92-1, 3-Bromo-N'-[2-(hydroxyimino)-1-phenylethylidene]benzoic hydrazide
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of benzohydrazide lipoyxygenase inhibitors useful in treatment of inflammatory diseases)
 RN 58644-42-1 CAPLUS
 CN Benzoic acid, 3-bromo-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



RN 419537-92-1 CAPLUS
 CN Benzoic acid, 3-bromo-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
 (CA INDEX NAME)



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2004:471224 CAPLUS

DOCUMENT NUMBER: 141:184081

TITLE: Copper(II) Complexes of a Series of Alkoxy Diazine Ligands: Mononuclear, Dinuclear, and Tetranuclear Examples with Structural, Magnetic, and DFT Studies
Grove, Hilde; Kelly, Timothy L.; Thompson, Laurence K.; Zhao, Liang; Xu, Zhiqiang; Abedin, Tareque S. M.; Miller, David O.; Goeta, Andres E.; Wilson, Claire; Howard, Judith A. K.

AUTHOR(S): Department of Chemistry, Memorial University, St. John's, NL, A1B 3X7, Can.

CORPORATE SOURCE: Inorganic Chemistry (2004), 43(14), 4278-4288
CODEN: INOCAJ; ISSN: 0020-1669

SOURCE: American Chemical Society

PUBLISHER: Journal

DOCUMENT TYPE: English

LANGUAGE: CASREACT 141:184081

OTHER SOURCE(S):
AB Picolyl hydrazone ligands have two potentially bridging functional groups (μ -O, μ -N-N) and consequently can exist in different coordination conformers, both of which form spin-coupled polynuclear coordination complexes, with quite different magnetic properties. [Cu₂(POAP-H)Br₃(H₂O)] (1) involves a μ -N-N bridge (Cu-N-N-Cu 150.6°) and exhibits quite strong antiferromagnetic coupling ($-2J = 246(1)$ cm⁻¹). [Cu₂(PZOAPZ-H)Br₃(H₂O)] (2) has two Cu(II) centers bridged by an alkoxide group with a large Cu-O-Cu angle (141.7°) but exhibits quite weak antiferromagnetic exchange ($-2J = 91.5$ cm⁻¹). This is much weaker than anticipated, despite direct overlap of the Cu magnetic orbitals. D. functional calcs. on 2, yield a similar singlet-triplet splitting energy. Structural details are reported for [Cu₂(POAP-H)Br₃(H₂O)] (1), [Cu₂(PZOAPZ-H)Br₃(H₂O)] (2), [Cu₂(PAOPF-2H)Br₂(DMSO)(H₂O)]·H₂O (3), [Cu₄(POMP-H)₄](NO₃)₄·2H₂O (4), and PPOCCO (5) (a picolyl hydrazone ligand with a terminal oxime group) and its mononuclear complexes [Cu(PPOCCO-H)(NO₃)] (6) and [Cu(PPOCCO-H)Cl] (7). Compound 1 (C₁₂H₁₃Br₃Cu₂N₅O₄) crystallizes in the monoclinic system, space group P2₁/c, with a 15.1465(3), b 18.1848(12), c 6.8557(5) Å, β 92.751(4)°, and Z = 4. Compound 2 (C₁₀H₁₃Br₃Cu₂N₇O₄) crystallizes in the triclinic system, space group P₁h₁1n, with a 9.14130(1), b 10.4723(1), c 10.9411(1) Å, α 100.769(1), β 106.271(1), γ 103.447(1)°, and Z = 2. Compound 3 (C₂₃H₂₂Br₂Cu₂N₇O₅·5S) crystallizes in the monoclinic system, space group P2₁/c, with a 12.406(2), b 22.157(3), c 10.704(2) Å, β 106.21(1)°, and Z = 4. Compound 4 (C₅₂H₄₈Cu₄N₂₀O₁₈) crystallizes in the monoclinic system, space group P2₁/n, with a 14.4439(6), b 12.8079(5), c 16.4240(7) Å, β 105.199(1)°, and Z = 4. Compound 5 (C₁₅H₁₄N₄O₂) crystallizes in the orthorhombic system, space group Pna2₁, with a 7.834(3), b 11.797(4), c 15.281(3) Å, and Z = 4. Compound 6 (C₁₅H₁₃CuN₅O₅) crystallizes in the monoclinic system, space group P2₁/c, with a 8.2818(9), b 17.886(2), c 10.828(1) Å, β 92.734(2)°, and Z = 4. Compound 7 (C₁₅H₁₃CuClN₄O₂) crystallizes in the orthorhombic system,

space group Pna21, with a 7.9487(6), b 14.3336(10), c 13.0014(9) Å, and Z = 4. D. functional calcs. on PPOCCO were examined in relation to the anti-eclipsed conformational change that occurs on coordination to Cu(II).

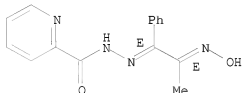
IT 735270-67-4P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and crystal structure and complexation with copper(II))

RN 735270-67-4 CAPLUS

CN 2-Pyridinecarboxylic acid, (2E)-2-[(2E)-2-(hydroxyimino)-1-phenylpropylidene]hydrazide (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2002:100096 CAPLUS

DOCUMENT NUMBER: 136:288198

TITLE: Synthetic and antimicrobial studies of hexacoordinated ternary complexes of Mn(II) and Cu(II)

AUTHOR(S): Agarwal, Suresh K.; Jain, Jaya; Chand, Subhash
CORPORATE SOURCE: Department of Chemistry, Lajpat Rai Postgraduate College, Sahibabad, 201 005, India

SOURCE: Asian Journal of Chemistry (2002), 14(1), 489-492
CODEN: AJCHEW; ISSN: 0970-7077

PUBLISHER: Asian Journal of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:288198

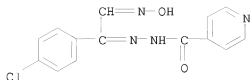
AB Some new ternary complexes of Mn(II) and Cu(II) with isonitrosoacetophenone isonicotinoyl hydrazone (INAPIH)/4-chloroisonitrosoacetophenone isonicotinoyl hydrazone (CLINAPIH) as primary and 1-(o-methoxyanilinomethyl)benzimidazole (MAMB) as secondary ligand were synthesized and their structural features were studied from anal., spectral and molar conductance data. Anal. data suggest 1:1:1 (M-L'/L''-L''') stoichiometric composition for the isolated ternary complexes (M = Mn2+/Cu2+, L = deprotonated INAPIH, L' = deprotonated CLINAPIH and L'' = MAMB). The complexes show 1:1 electrolytic nature. IR spectra confirm the tridentate and bidentate behavior of the hydrazone (INAPIH/CLINAPIH) and Mannich base (MAMB), resp. Electronic spectral data propose octahedral stereochem. for the complexes. The complexes show greater antimicrobial activity (S. aureus and E. coli) than the corresponding ligands (no data).

IT 92103-03-2P 106271-24-3P

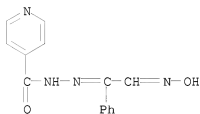
RL: BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(preparation, antimicrobial activity, and complexation with manganese(II) and copper(II))

RN 92103-03-2 CAPLUS

CN 4-Pyridinecarboxylic acid, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



RN 106271-24-3 CAPLUS
 CN 4-Pyridinecarboxylic acid, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:782345 CAPLUS

DOCUMENT NUMBER: 136:272166

TITLE: Synthesis, spectral, thermal and biological studies of Pd(II), Rh(III) and Pt(IV) ternary complexes with isonitrosoacetophenone-2-furoic hydrazone/4-chloroisitonrosoacetophenone-2-furoic hydrazone as primary and 1-(o-methoxyanilinomethyl)benzimidazole as secondary ligand

AUTHOR(S): Agarwal, Suresh K.; Chand, Subhash
 CORPORATE SOURCE: Department of Chemistry L. R. Postgraduate College, Sahibabad, 201 005, India

SOURCE: Ultra Scientist of Physical Sciences (2001), 13(2), 267-270

CODEN: USPSE5

PUBLISHER: Ultra Scientist of Physical Sciences

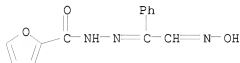
DOCUMENT TYPE: Journal

LANGUAGE: English

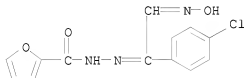
OTHER SOURCE(S): CASREACT 136:272166

AB Ternary complexes of Pd(II), Rh(III) and Pt(IV) with isonitrosoacetophenone-2-furoic hydrazone (INAPFH) or 4-chloroisitonrosoacetophenone-2-furoic hydrazone (ClINAPFH) as primary and 1-(o-methoxyanilinomethyl)benzimidazole (MAMB) as secondary ligand were synthesized. Their structural features were studied by elemental anal., magnetic, spectral, conductance and thermal decomposition data. The complexes are [PdLL'L']Cl, [PdL'L']Cl, [RhLL'Cl]Cl, [RhL'L'Cl]Cl, [PtLL'Cl]Cl₂, and [PtL'L'Cl]Cl₂ where L/L' = deprotonated INAPFH/ClINAPFH and L = MAMB. Pd(II) and Rh(III) complexes show 1:1 electrolytic nature while Pt(IV) complexes are 1:2 electrolytes. IR spectra confirm the tridentate nature of the hydrazone and bidentate nature of the Mannich base (MAMB) in Rh(III) and Pt(IV) complexes while in Pd(II) complexes, both of them act as bidentate ligands. Reflectance spectral data correspond to square planar geometry of Pd(II) and octahedral geometry of Rh(III) and Pt(IV) complexes. The complexes possess antimicrobial and fungicidal activity.

IT 329320-91-4P 357173-29-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and complexation with palladium(II), rhodium(III) and
 platinum(IV) in presence of 1-(o-methoxyanilinomethyl)benzimidazole)
 RN 329320-91-4 CAPLUS
 CN 2-Furancarboxylic acid, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
 (CA INDEX NAME)



RN 357173-29-6 CAPLUS
 CN 2-Furancarboxylic acid, 2-[1-(4-chlorophenyl)-2-
 (hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:464740 CAPLUS

DOCUMENT NUMBER: 135:204430

TITLE: Synthesis and structural studies of Cr(III) and
 Fe(III) ternary complexes

AUTHOR(S): Agarwal, Suresh K.; Chand, Subhash

CORPORATE SOURCE: Department of Chemistry, Lajpat Rai Postgraduate
 College, Sahibabad, 201 005, India

SOURCE: Asian Journal of Chemistry (2001), 13(3), 1101-1104
 CODEN: AJCHEW; ISSN: 0970-7077

PUBLISHER: Asian Journal of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 135:204430

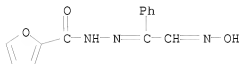
AB [MLL1(OH2)]X2 (M = Cr, Fe; L = 1-(o-methoxyanilinomethyl)benzimidazole;
 HL1 = isonitrosoacetophenone-2-furoic hydrazide/4-
 chloroisonitrosoacetophenone-2-furoic hydrazide (INAPFH/ClINAPFH); X = Cl,
 NO3) were prepared and characterized by chemical anal., magnetic, spectral and
 thermogravimetric studies. Comparison of the IR spectra of ligands and
 complexes shows the tridentate nature of the hydrazide with oximino and
 azomethine N and carbonyl O as the donor sites and bidentate behavior of
 the L possessing N atoms of the C=N (benzimidazole ring) and NH as
 potential donors. Magnetic moments, reflectance spectral bands and values
 of ligand field parameters show that the complexes possess octahedral
 stereochem. The complexes are thermally stable up to 150° and a
 mass-loss corresponding to one mol. of H2O at 160-180° shows
 coordinated H2O in them. At 570-700°, organic ligands are completely
 lost and stable metallic oxides were obtained.

IT 329320-91-4P 357173-29-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and complexation with chromium and iron)

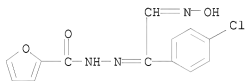
RN 329320-91-4 CAPLUS

CN 2-Furancarboxylic acid, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
(CA INDEX NAME)



RN 357173-29-6 CAPLUS

CN 2-Furancarboxylic acid, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2001:47911 CAPLUS

DOCUMENT NUMBER: 134:231144

TITLE: Synthesis and structural characterization of some new
ternary complexes of Co(II and III) and Ni(II)

AUTHOR(S): Agarwal, Suresh K.; Chand, Subhash

CORPORATE SOURCE: Department of Chemistry, L.R. Postgraduate College,
Sahibabad, 201 005, India

SOURCE: Asian Journal of Chemistry (2000), 12(4), 1311-1314
CODEN: AJCHEW; ISSN: 0970-7077

PUBLISHER: Asian Journal of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:231144

AB Ternary complexes of Co(II and III) and Ni(II) with isonitrosoacetophenone
isonicotinic hydrazide (INAPIH)/isonitrosoacetophenone furoic hydrazide
(INAPFH) as primary and 1-(o-methoxyanilinomethyl)benzimidazole (MAMB) as
secondary ligand were synthesized and characterized from anal.,
conductance, spectral and TG data. The complexes are of the composition
[M(INAPI)/(INAPF)(MAMB)(H2O)]X (M = CoII, X = NO3; M = CoIII, X = Cl2; M =
NiII, X = NO3, Cl).

IT 329320-91-4

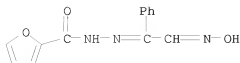
RL: RCT (Reactant); RACT (Reactant or reagent)

(reactant for preparation of cobalt(II and III) and nickel(II)

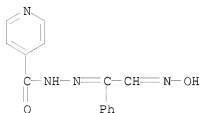
isonitrosoacetophenone furoic hydrazide (methoxyanilinomethyl)benzimidazole ternary complexes)

RN 329320-91-4 CAPLUS

CN 2-Furancarboxylic acid, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide
(CA INDEX NAME)



IT 106271-24-3
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant for preparation of cobalt(II and III) and nickel(II)
 isonitrosoacetophenone isonicotinic hydrazone
 (methoxyanilinomethyl)benzimidazole ternary complexes)
 RN 106271-24-3 CAPLUS
 CN 4-Pyridinecarboxylic acid, 2-[2-(hydroxyimino)-1-
 phenylethylidene]hydrazide (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:466824 CAPLUS

DOCUMENT NUMBER: 133:171421

TITLE: Synthesis and structural studies on ternary complexes
 of VO(IV) and ZrO(IV) with isonitrosoacetophenone
 picolinoylhydrazone as primary and
 1-(o-methoxyanilinomethyl)-5-phenoxybenzimidazole as
 secondary ligand

AUTHOR(S): Agarwal, Suresh K.; Chand, Subhash

CORPORATE SOURCE: Department of Chemistry, L.R. Postgraduate College,
 Sahibabad, 201 005, India

SOURCE: Asian Journal of Chemistry (2000), 12(3), 843-846
 CODEN: AJCHEW; ISSN: 0970-7077

PUBLISHER: Asian Journal of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

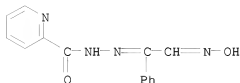
AB Ternary complexes of VO(IV) and ZrO(IV) with isonitrosoacetophenone
 picolinoylhydrazone (INAPH) as primary and 1-(o-methoxyanilinomethyl)-5-
 phenoxybenzimidazole (MAMPB) as secondary ligand were synthesized and
 characterized from anal., magnetic and spectral studies. Anal. data
 suggested 1:1:1 (M-L-L')X stoichiometric composition for the ternary complexes
 [where M = VO(IV)/ZrO(IV), L = INAPH and L' = MAMPB, X = Cl, Br, I, NCS].
 Electrolytic conductance data revealed 1:1 electrolytic nature of VO(IV)
 complexes only. However, very low values of conductance in case of
 ZrO(IV) complexes, indicate their nonelectrolytic behavior. Reflectance
 spectra of VO(IV) complexes suggested distorted octahedral geometry for
 them. IR spectra of the ligands and complexes showed tridentate and
 bidentate behavior of the hydrazone and Mannich base ligands resp.
 ZrO(IV) complexes possess heptacoordinated structures.

IT 287958-35-4P, Isonitrosoacetophenone picolinoylhydrazone
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)

(for preparation of vanadyl and zirconyl isonitrosoacetophenone
picolinoylhydrazonato (methoxyanilinomethyl)phenoxybenzimidazole
complexes)

RN 287958-35-4 CAPLUS

CN 2-Pyridinecarboxylic acid, 2-[2-(hydroxyimino)-1-
phenylethylidene]hydrazide (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:449353 CAPLUS

DOCUMENT NUMBER: 111:49353

ORIGINAL REFERENCE NO.: 111:8233a,8236a

TITLE: Synthesis, magnetic and spectral studies on copper(II)
chelates of α -oximinobenzoylacetarilamide
benzoylhydrazones and salicylhydrazones

AUTHOR(S): Patel, D. M.; Patel, M. M.; Patel, M. R.

CORPORATE SOURCE: Dep. Chem., Sardar Patel Univ., Vallabh Vidyanagar,
India

SOURCE: Journal of Indian Council of Chemists (1987), 3(1),
41-5

CODEN: JICCE7; ISSN: 0971-5037

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Cu₂L₂ [HL = RNHCOC(:NOH)C(Ph):NNHCOC6H₄R₁ (R = Ph, p-MeC₆H₄, p-ClC₆H₄,
o-MeOC₆H₄, 2,4-Me₂C₆H₃; R₁ = H, OH)] were prepared and characterized by
elemental anal., magnetic moments, IR and electronic spectra. Low moments
arise from spin coupling by superexchange through the bridging O atom.
The 2 imino N atoms also coordinate from the tridentate ligands.

IT 121477-15-4P 121477-16-5P 121477-17-6P

121477-18-7P 121477-19-8P 121477-20-1P

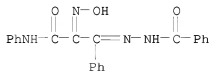
121477-21-2P 121477-22-3P 121477-23-4P

121477-24-5P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

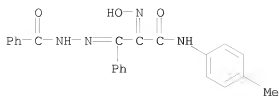
RN 121477-15-4 CAPLUS

CN Benzoic acid, 2-[2-(hydroxyimino)-3-oxo-1-phenyl-3-
(phenylamino)propylidene]hydrazide (CA INDEX NAME)



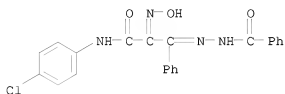
RN 121477-16-5 CAPLUS

CN Benzoic acid, 2-[2-(hydroxyimino)-3-[(4-methylphenyl)amino]-3-oxo-1-
phenylpropylidene]hydrazide (CA INDEX NAME)



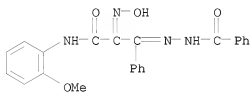
RN 121477-17-6 CAPLUS

CN Benzoic acid, 2-[3-[(4-chlorophenyl)amino]-2-(hydroxyimino)-3-oxo-1-phenylpropylidene]hydrazide (CA INDEX NAME)



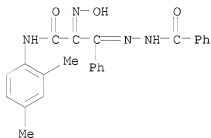
RN 121477-18-7 CAPLUS

CN Benzoic acid, 2-[2-(hydroxyimino)-3-[(2-methoxyphenyl)amino]-3-oxo-1-phenylpropylidene]hydrazide (CA INDEX NAME)



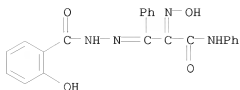
RN 121477-19-8 CAPLUS

CN Benzoic acid, 2-[3-[(2,4-dimethylphenyl)amino]-2-(hydroxyimino)-3-oxo-1-phenylpropylidene]hydrazide (CA INDEX NAME)



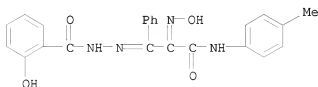
RN 121477-20-1 CAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[2-(hydroxyimino)-3-oxo-1-phenyl-3-(phenylamino)propylidene]hydrazide (CA INDEX NAME)



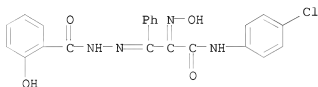
RN 121477-21-2 CAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[2-(hydroxyimino)-3-[(4-methylphenyl)amino]-3-oxo-1-phenylpropylidene]hydrazide (CA INDEX NAME)



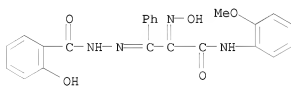
RN 121477-22-3 CAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[3-[(4-chlorophenyl)amino]-2-(hydroxyimino)-3-oxo-1-phenylpropylidene]hydrazide (CA INDEX NAME)



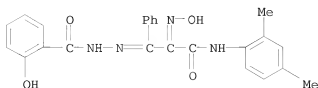
RN 121477-23-4 CAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[2-(hydroxyimino)-3-[(2-methoxyphenyl)amino]-3-oxo-1-phenylpropylidene]hydrazide (CA INDEX NAME)



RN 121477-24-5 CAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[3-[(2,4-dimethylphenyl)amino]-2-(hydroxyimino)-3-oxo-1-phenylpropylidene]hydrazide (CA INDEX NAME)



L4 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:135602 CAPLUS

DOCUMENT NUMBER: 84:135602

ORIGINAL REFERENCE NO.: 84:22042h,22043a

TITLE: Chemistry of 1,2,4-triazines, VII. Reactions of 1,2,4-triazine 4-oxides

AUTHOR(S): Neunhoeffer, Hans; Boehnisch, Volker

CORPORATE SOURCE: Tech. Hochsch., Darmstadt, Fed. Rep. Ger.

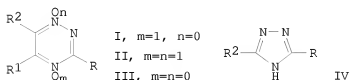
SOURCE: Justus Liebigs Annalen der Chemie (1976), (1), 153-62
CODEN: JLACBF; ISSN: 0075-4617

DOCUMENT TYPE: Journal

LANGUAGE: German

OTHER SOURCE(S): CASREACT 84:135602

GI



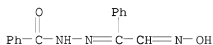
AB Both acidic and basic hydrolysis of triazine oxides I (R = H, R1 = R2 = Me; R = H, R1 = Me, R = R1 = H, R = Me, R1 = H, R = Ph, R1 = H, R = R1 = Me, R2 = Ph) gave 58-81% HON:CR1CR2:NNHCOR, which was also prepared unambiguously from HON:CR1CR2:NNH2 and RCOR3 (R3 = EtO, AcO, Cl). Oxidation of I (R = H, Me, Ph, R1 = H, R2 = Ph; R = Ph, R1 = R2 = Me) gave 15-78% triazine oxides I (R1 = OH) and(or) triazine dioxides II. BzCl reacted with I (R = H, Me, Ph, R1 = H, R2 = Ph) in the presence of H2O to give 63-80% triazines III (R1 = OH). Nitrobenzaldehydes reacted with the Me groups of I (R = Me, R1 = H, R2 = Ph; R = H, R1 = Me, R2 = Ph) to give 13-48% (nitrostyryl)triazines I (R = nitrostyryl, R1 = H, R2 = Ph; R = H, R1 = 4-nitrostyryl, R2 = Ph). Uv irradiation of I (R = H, R1 = Me, R2 = Me, Ph; R = H, Me, Ph, R1 = H, R2 = Ph) gave 48-82% the corresponding triazines III and(or) triazoles IV.

IT 58644-42-1P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 58644-42-1 CAPLUS

CN Benzoic acid, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



L4 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1976:58862 CAPLUS

DOCUMENT NUMBER: 84:58862

ORIGINAL REFERENCE NO.: 84:9667a,9670a

TITLE: Potential antimycobacterial agents. III.
Condensation products of diphenylamine-2-carboxylic acid hydrazides with aldehydes and ketones and their evaluation as antibacterials

AUTHOR(S): Bahadur, Surendra; Goel, Anil K.; Varma, R. S.
 CORPORATE SOURCE: Chem. Dep., Univ. Lucknow, Lucknow, India
 SOURCE: Journal of the Indian Chemical Society (1975), 52(9), 843-6

CODEN: JICSAH; ISSN: 0019-4522

DOCUMENT TYPE: Journal

LANGUAGE: English

GI For diagram(s), see printed CA Issue.

AB Reaction of I (R = 2-MeO, 2-EtO, 3-Cl, 4-Br) with p-R1C6H4CHO (R1 = NO2, Br, Cl, MeO) gave 70-5% II. Reaction of I (R = H, 2-, 3-, 4-Me, 3-Cl, 2-EtO, 2-MeO) with PhCOR1 gave 65-8% III. Reaction of I with α -isonitrosopropiophenone gave 75-80% IV. II, III and IV were tested against Escherichia coli, Bacillus magaterium, Staphylococcus aureus, and Salmonella typhi. Some of the tested compds. were effective antibacterials.

IT 58153-81-4P 58153-82-5P 58153-83-6P

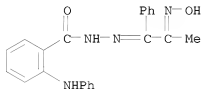
58153-84-7P 58153-85-8P 58153-86-9P

58153-87-0P 58153-88-1P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation and antibacterial activity of)

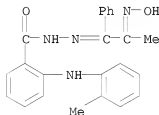
RN 58153-81-4 CAPLUS

CN Benzoic acid, 2-(phenylamino)-, [2-(hydroxyimino)-1-phenylpropylidene]hydrazide (9CI) (CA INDEX NAME)



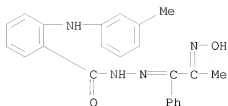
RN 58153-82-5 CAPLUS

CN Benzoic acid, 2-[(2-methylphenyl)amino]-, [2-(hydroxyimino)-1-phenylpropylidene]hydrazide (9CI) (CA INDEX NAME)



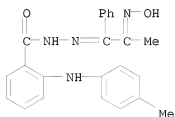
RN 58153-83-6 CAPLUS

CN Benzoic acid, 2-[(3-methylphenyl)amino]-, [2-(hydroxyimino)-1-phenylpropylidene]hydrazide (9CI) (CA INDEX NAME)



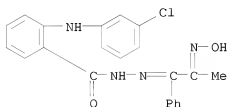
RN 58153-84-7 CAPLUS

CN Benzoic acid, 2-[(4-methylphenyl)amino]-, [2-(hydroxyimino)-1-phenylpropylidene]hydrazide (9CI) (CA INDEX NAME)



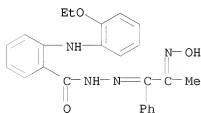
RN 58153-85-8 CAPLUS

CN Benzoic acid, 2-[(3-chlorophenyl)amino]-, [2-(hydroxyimino)-1-phenylpropylidene]hydrazide (9CI) (CA INDEX NAME)



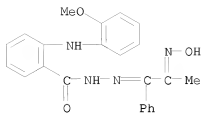
RN 58153-86-9 CAPLUS

CN Benzoic acid, 2-[(2-ethoxyphenyl)amino]-, [2-(hydroxyimino)-1-phenylpropylidene]hydrazide (9CI) (CA INDEX NAME)

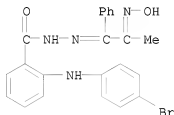


RN 58153-87-0 CAPLUS

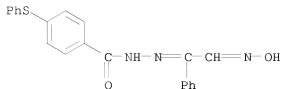
CN Benzoic acid, 2-[(2-methoxyphenyl)amino]-, [2-(hydroxyimino)-1-phenylpropylidene]hydrazide (9CI) (CA INDEX NAME)



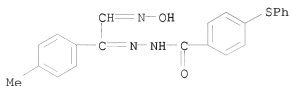
RN 58153-88-1 CAPLUS
 CN Benzoic acid, 2-[(4-bromophenyl)amino]-, [2-(hydroxyimino)-1-phenylpropylidene]hydrazide (9CI) (CA INDEX NAME)



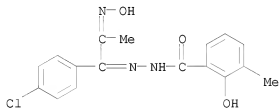
L4 ANSWER 14 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1971:141198 CAPLUS
 DOCUMENT NUMBER: 74:141198
 ORIGINAL REFERENCE NO.: 74:22811a,22814a
 TITLE: Potential antiviral and antituberculous compounds. I. N-1-Acyl-N-4-aryl or alkyl thiosemicarbazides, Schiff's bases, and condensation products of hydrazides and isonitrosoketones
 AUTHOR(S): Misra, Vinay S.; Saxena, Anakshi
 CORPORATE SOURCE: Chem. Dep., Lucknow Univ., Lucknow, India
 SOURCE: Indian Journal of Applied Chemistry (1969), 32(6), 373-6
 CODEN: IJACAN; ISSN: 0019-5065
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Twenty-one condensation products of p-(phenylthio)benzoic acid hydrazide with aldehydes, ketones, and isonitroso ketones and of p-(phenylsulfonyl)benzoic acid hydrazide with several alkyl and aryl isothiocyanates were synthesized in 55-95% yields by refluxing the starting materials in 9% EtOH 0.5-4 hrs.
 IT 32119-06-5P 32119-07-6P
 RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)
 RN 32119-06-5 CAPLUS
 CN Benzoic acid, p-(phenylthio)-, (α-formylbenzylidene)hydrazide α-oxime (8CI) (CA INDEX NAME)



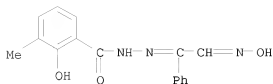
RN 32119-07-6 CAPLUS
 CN Benzoic acid, p-(phenylthio)-, (α -formyl-p-methylbenzylidene)hydrazide α -oxime (8CI) (CA INDEX NAME)



L4 ANSWER 15 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1966:69878 CAPLUS
 DOCUMENT NUMBER: 64:69878
 ORIGINAL REFERENCE NO.: 64:13124d-e
 TITLE: Antitubercular activity of new amidines, thiosemicarbazides, thiosemicarbazones, and hydrazides in vitro
 AUTHOR(S): Varma, R. S.; Gupta, K. C.; Nath, Amar; Misra, V. S.
 CORPORATE SOURCE: Univ. Lucknow
 SOURCE: Indian Journal of Microbiology (1964), 4(1-4), 63-6
 CODEN: IJMBAC; ISSN: 0046-8991
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB Eleven of the thiosemicarbazones, thiosemicarbazides, and hydrazides showed antitubercular activity against Mycobacterium tuberculosis H37Rv, M. tuberculosis strain Ravenel, M. avium B 19-2, M. phlei, M. tuberculosis ATCC 607. Seven showed antibacterial activity against Staphylococcus aureus, five against Shigella flexneri, and one against Salmonella paratyphi A. No antibacterial activity was shown by the amidines. None of the compds. showed antifungal activity against 5 different microorganism.
 IT 7021-30-9 7021-34-3
 (Derived from data in the 7th Collective Formula Index (1962-1966))
 RN 7021-30-9 CAPLUS
 CN 2,3-Cresotic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime (7CI, 8CI) (CA INDEX NAME)



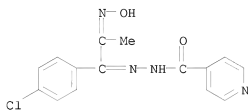
RN 7021-34-3 CAPLUS
 CN 2,3-Cresotic acid, (α -formylbenzylidene)hydrazide, oxime (7CI, 8CI) (CA INDEX NAME)



IT 7021-35-4, Isonicotinic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime
(as bactericide)

RN 7021-35-4 CAPLUS

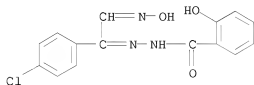
CN Isonicotinic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime
(7CI, 8CI) (CA INDEX NAME)



IT 7021-29-6, Salicylic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime 7021-31-0, Salicylic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime 7021-32-1, 2,3-Cresotic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime 7091-85-2, Salicylic acid, (α -formyl-p-methylbenzylidene)hydrazide, oxime
(bactericidal activity of)

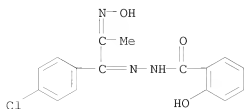
RN 7021-29-6 CAPLUS

CN Salicylic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime (7CI, 8CI) (CA INDEX NAME)

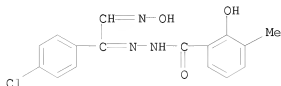


RN 7021-31-0 CAPLUS

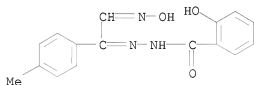
CN Salicylic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime (7CI, 8CI) (CA INDEX NAME)



RN 7021-32-1 CAPLUS
CN 2,3-Cresotic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime
(7CI, 8CI) (CA INDEX NAME)



RN 7091-85-2 CAPLUS
CN Salicylic acid, (α -formyl-p-methylbenzylidene)hydrazide, oxime (7CI,
8CI) (CA INDEX NAME)



L4 ANSWER 16 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1966:69877 CAPLUS

DOCUMENT NUMBER: 64:69877

ORIGINAL REFERENCE NO.: 64:13124c-d

TITLE: Acridine Orange and Crystal Violet as radiomimetic agents

AUTHOR(S): Zampieri, A.; Greenberg, J.

CORPORATE SOURCE: Palo Alto Med. Res. Found., Palo Alto, CA

SOURCE: Giorn. Microbiol (1965), 13(3), 177-90

DOCUMENT TYPE: Journal

LANGUAGE: English

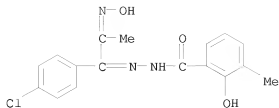
AB Radiosensitive strains and radioresistant mutants of Escherichia coli were tested for sensitivity to the title compds. The radioresistant mutants R4 and B/r were more resistant to Crystal Violet than were the radiosensitive strains B and S. Bacterial inactivation by Acridine Orange was more effective on radiosensitive strains only if the treatment were performed in complete broth medium. Both chemicals were activated by visible light. Neither plating medium nor heat recovery could be observed. A high percentage of radiosensitive cells surviving treatment with Acridine Orange and Crystal Violet were resistant to uv light.

IT 7021-30-9 7021-34-3

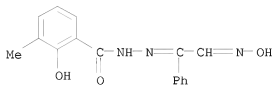
(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 7021-30-9 CAPLUS

CN 2,3-Cresotic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime
(7CI, 8CI) (CA INDEX NAME)



RN 7021-34-3 CAPLUS
 CN 2,3-Cresotic acid, (α -formylbenzylidene)hydrazide, oxime (7CI, 8CI)
 (CA INDEX NAME)



L4 ANSWER 17 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1965:86764 CAPLUS

DOCUMENT NUMBER: 62:86764

ORIGINAL REFERENCE NO.: 62:15479d-f

TITLE: Effect of solvent on the change of the free energy of molecules of carboxylic acids in solution

AUTHOR(S): Konovalov, O. M.

CORPORATE SOURCE: All-Union Sci.-Res. Inst. Single Crystals, Kharkov

SOURCE: Zhurnal Fizicheskoi Khimii (1965), 39(3), 693-8

CODEN: ZFKHA9; ISSN: 0044-4537

DOCUMENT TYPE: Journal

LANGUAGE: Russian

AB The change in the free energy of a mol. of AcOH, butyric, monochloroacetic, benzoic, salicylic, and o-, m-, and p-nitrobenzoic acids in changing solvents from H₂O to MeOH, EtOH, and Me₂CO in dilute solns. was determined by the electromotive force of cells (H₂)|HA|AgA-Ag. The difference in the dissociation

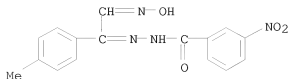
const. of an acid in 2 solvents $\delta pK = 2 \log \gamma^{\circ i} - \log \gamma^{\circ M}$, where $\gamma^{\circ i}$ is the zero activity coefficient of the ions and $\gamma^{\circ M}$ is that of the mol. More accurate thermodynamic values for carboxylic acids could be obtained from exptl. δpK and $\log \gamma^{\circ i}$ from $\delta pK + \log \gamma^{\circ M}$.

For all acids $\log \gamma^{\circ M}$ was neg., i.e. the energy of reaction with H₂O was less than that with other solvents. It was shown that the dipole-dipole reaction was not the primary contributing factor to the change in free energy but the reaction of nonpolar mol. with mol. of the solvent. The change in the free energy of an acid mol. in charging solvents was of the same order as the change in free energy of ions.

IT 94671-90-6, Benzoic acid, m-nitro-, (α -formyl-p-methylbenzylidene)hydrazide, oxime
 (free energy of, in solution, solvents and)

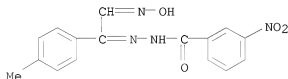
RN 94671-90-6 CAPLUS

CN Benzoic acid, 3-nitro-, 2-[2-(hydroxyimino)-1-(4-methylphenyl)ethylidene]hydrazide (CA INDEX NAME)



L4 ANSWER 18 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1964:26965 CAPLUS
 DOCUMENT NUMBER: 60:26965
 ORIGINAL REFERENCE NO.: 60:4770a-b
 TITLE: Thermometric titrations in acetonitrile
 AUTHOR(S): Forman, E. J.; Hume, D. N.
 CORPORATE SOURCE: Massachusetts Inst. of Technol., Cambridge
 SOURCE: Talanta (1964), 11(2), 129-37
 CODEN: TLNTA2; ISSN: 0039-9140
 DOCUMENT TYPE: Journal
 LANGUAGE: English

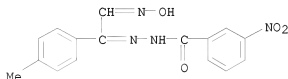
AB The use of acetonitrile as a medium for thermometric acid-base titrations was studied. Satisfactory titrations are obtainable for a wide variety of amines and organic acids, but the instability of the solvent in the presence of strong bases greatly limits its practical applicability. Data are given on the heats of neutralization of various acids in acetonitrile, and the results for meta- and para-substituted benzoic acids are shown to correlate well with their Hammett σ -values.
 IT 94671-90-6, Benzoic acid, m-nitro-, (α -formyl-p-methylbenzylidene)hydrazide, oxime
 (heat of neutralization of and thermometric titration of)
 RN 94671-90-6 CAPLUS
 CN Benzoic acid, 3-nitro-, 2-[2-(hydroxyimino)-1-(4-methylphenyl)ethyldene]hydrazide (CA INDEX NAME)



L4 ANSWER 19 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1963:451878 CAPLUS
 DOCUMENT NUMBER: 59:51878
 ORIGINAL REFERENCE NO.: 59:9391f-g
 TITLE: Thermodynamic properties of electrolytes in nonaqueous solutions. XIV. Calculation of the transport energy of acids from one solvent to another
 AUTHOR(S): Izmailov, M. A.; Chernyi, V. S.; Spivak, L. L.
 CORPORATE SOURCE: State Univ., Kharkov
 SOURCE: Zhurnal Fizicheskoi Khimii (1963), 37(4), 822-8
 CODEN: ZFKHA9; ISSN: 0044-4537
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB cf. CA 55, 6129b, 16106f; 57, 9285f, 11920h. The difference in the acid strength in H2O and in nonaq. solvents was calculated for a number of acids in alics., NH3, HCOOH, and compared to the energy of transolvation of the proton, log γ_{OH^+} . The change in the energy for the transfer of acid

anions and undissocd. acid mol. to different solvents was calculated from data on the solubility of the acids, and from these values it was shown that the change in the acid strength, ApK, can be evaluated for the different solvents.

IT 94671-90-6, Benzoic acid, m-nitro-, (α -formyl-p-methylbenzylidene)hydrazide, oxime
(heat of transfer of, between solvents, ionization and)
RN 94671-90-6 CAPLUS
CN Benzoic acid, 3-nitro-, 2-[2-(hydroxyimino)-1-(4-methylphenyl)ethylidene]hydrazide (CA INDEX NAME)

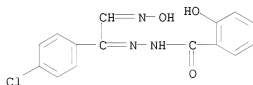


L4 ANSWER 20 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1963:415491 CAPLUS
DOCUMENT NUMBER: 59:15491
ORIGINAL REFERENCE NO.: 59:2763c-e
TITLE: Possible antituberculosis compounds. XIV. Condensation products of hydrazides and isonitroso ketones
AUTHOR(S): Misra, Vinay S.; Varma, Rajendra S.
CORPORATE SOURCE: Univ. Lucknow, India
SOURCE: Journal of the Indian Chemical Society (1962), 39, 763-4
CODEN: JICSAH; ISSN: 0019-4522
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. CA 57, 16473e. The title compds. were prepared (Giammanco, CA 55, 18725h) by refluxing for 2-4 hrs. various hydrazides and isonitroso ketones in 95% EtOH, filtering, and recrystallizing the products from EtOH. The compds. obtained had the formula HON:CRCR':NNHCOR'' (R, R', R'', and m.p. given): H, Ph, Ph, 170°; H, Ph, 2-HOC6H4, 182°; H, Ph, 4-HOC6H4, 241°; H, Ph, 3-O2NC6H4, 238°; H, Ph, 5,2-Me(HO)C6H3, 208-10° (decomposition); H, Ph, 3,2-Me(HO)C6H3, 183°; H, Ph, benzyl, 110-15°; H, 4-tolyl, Ph, 226°; H, 4-tolyl, 2-HOC6H4, 220-4°; H, 4-tolyl, 4-HOC6H4, 253-4°; H, 4-tolyl, 3-O2NC6H4, 249°; H, 4-tolyl, 5,2-Me(HO)C6H3, 222°; H, 4-tolyl, 4-pyridyl, 210-12° (decomposition); H, 4-ClC6H4, Ph, 237°; H, 4-ClC6H4, 2-HOC6H4, 215°; H, 4-ClC6H4, 4-HOC6H4, 222°; H, 4-ClC6H4, 5,2-Me(HO)C6H3, 255-7°; H, 4-ClC6H4, 3,2-Me(HO)C6H3, 184°; H, 4-ClC6H4, 4-pyridyl, 113°; H, 4-ClC6H4, benzyl, 154-5°; Me, 4-ClC6H4, Ph, 211°; Me, 4-ClC6H4, 2-HOC6H4, 165-8°; Me, 4-ClC6H4, 4-HOC6H4, 216°; Me, 4-ClC6H4, 3-O2NC6H4, 209°; Me, 4-ClC6H4, 5,2-Me(HO)C6H3, 178°; Me, 4-ClC6H4, 3,2-Me(HO)C6H2, 191°; Me, 4-ClC6H4, 4-pyridyl, 152-3°; and Me, 4-ClC6H4, benzyl, 230°.
IT 7021-29-6P, Salicylic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime 7021-30-9P, 2,3-Cresotic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime 7021-31-0P, Salicylic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime 7021-32-1P, 2,3-Cresotic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime 7021-34-3P, 2,3-Cresotic acid, (α -formylbenzylidene)hydrazide, oxime 7021-35-4P, Isonicotinic

acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime
 7091-85-2P, Salicylic acid, (α -formyl-p-methylbenzylidene)hydrazide, oxime 58644-42-1P, Benzoic acid, (α -formylbenzylidene)hydrazide, oxime 92103-03-2P, Isonicotinic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime 92433-99-3P, Benzoic acid, p-hydroxy-, (p-chloro- α -formylbenzylidene)hydrazide, oxime 92555-05-0P, Salicylic acid, (α -formylbenzylidene)hydrazide, oxime 92874-85-6P, Benzoic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime 92874-88-9P, Benzoic acid, p-hydroxy-, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime 92874-89-0P, 2,5-Cresotic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime 92968-47-3P, Benzoic acid, (α -formyl-p-methylbenzylidene)hydrazide, oxime 92968-72-4P, Benzoic acid, p-hydroxy-, (α -formyl-p-methylbenzylidene)hydrazide, oxime 93313-68-9P, 2,5-Cresotic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime 93721-80-3P, Benzoic acid, m-nitro-, (α -formylbenzylidene)hydrazide, oxime 93734-44-2P, Isonicotinic acid, (α -formyl-p-methylbenzylidene)hydrazide, oxime 93818-96-3P, 2,5-Cresotic acid, (α -formyl-p-methylbenzylidene)hydrazide, oxime 94064-01-4P, Benzoic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime 94207-02-0P, Benzoic acid, m-nitro-, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime 94671-90-6P, Benzoic acid, m-nitro-, (α -formyl-p-methylbenzylidene)hydrazide, oxime
 RL: PREP (Preparation)
 (preparation of)

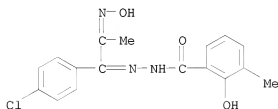
RN 7021-29-6 CAPLUS

CN Salicylic acid, (p-chloro- α -formylbenzylidene)hydrazide, oxime (7CI, 8CI) (CA INDEX NAME)



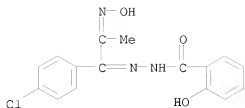
RN 7021-30-9 CAPLUS

CN 2,3-Cresotic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime (7CI, 8CI) (CA INDEX NAME)



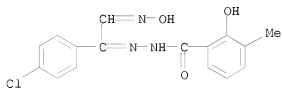
RN 7021-31-0 CAPLUS

CN Salicylic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime (7CI, 8CI) (CA INDEX NAME)



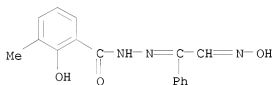
RN 7021-32-1 CAPLUS

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(7CI, 8CI) (CA INDEX NAME)



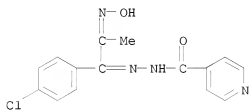
RN 7021-34-3 CAPLUS

CN 2,3-Cresotic acid, (α -formylbenzylidene)hydrazide, oxime (7CI, 8CI)
(CA INDEX NAME)



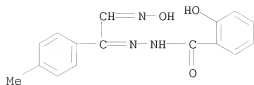
RN 7021-35-4 CAPLUS

CN Isonicotinic acid, (α -acetyl-p-chlorobenzylidene)hydrazide, oxime
(7CI, 8CI) (CA INDEX NAME)



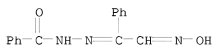
RN 7091-85-2 CAPLUS

CN Salicylic acid, (α -formyl-p-methylbenzylidene)hydrazide, oxime (7CI,
8CI) (CA INDEX NAME)



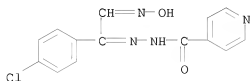
RN 58644-42-1 CAPLUS

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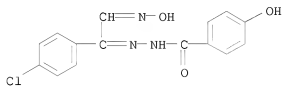
RN 92103-03-2 CAPLUS

CN 4-Pyridinecarboxylic acid, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



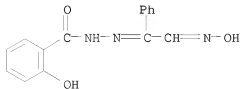
RN 92433-99-3 CAPLUS

CN Benzoic acid, 4-hydroxy-, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



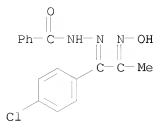
RN 92555-05-0 CAPLUS

CN Benzoic acid, 2-hydroxy-, 2-[2-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



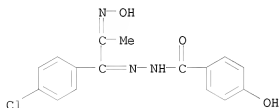
RN 92874-85-6 CAPLUS

CN Benzoic acid, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)propylidene]hydrazide (CA INDEX NAME)



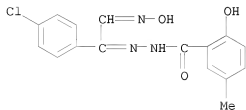
RN 92874-88-9 CAPLUS

CN Benzoic acid, 4-hydroxy-, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)propylidene]hydrazide (CA INDEX NAME)



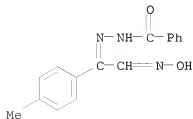
RN 92874-89-0 CAPLUS

CN Benzoic acid, 2-hydroxy-5-methyl-, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



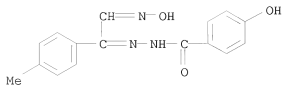
RN 92968-47-3 CAPLUS

CN Benzoic acid, 2-[2-(hydroxyimino)-1-(4-methylphenyl)ethylidene]hydrazide (CA INDEX NAME)



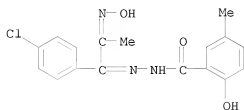
RN 92968-72-4 CAPLUS

CN Benzoic acid, 4-hydroxy-, 2-[2-(hydroxyimino)-1-(4-methylphenyl)ethylidene]hydrazide (CA INDEX NAME)



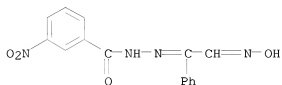
RN 93313-68-9 CAPLUS

CN Benzoic acid, 2-hydroxy-5-methyl-, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)propylidene]hydrazide (CA INDEX NAME)



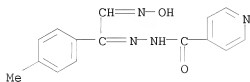
RN 93721-80-3 CAPLUS

CN Benzoic acid, 3-nitro-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



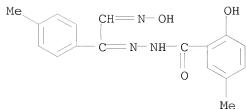
RN 93734-44-2 CAPLUS

CN 4-Pyridinecarboxylic acid, 2-[2-(hydroxyimino)-1-(4-methylphenyl)ethylidene]hydrazide (CA INDEX NAME)

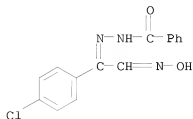


RN 93818-96-3 CAPLUS

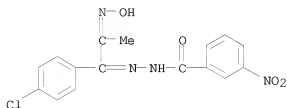
CN Benzoic acid, 2-hydroxy-5-methyl-, 2-[2-(hydroxyimino)-1-(4-methylphenyl)ethylidene]hydrazide (CA INDEX NAME)



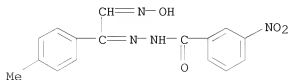
RN 94064-01-4 CAPLUS
 CN Benzoic acid, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)ethylidene]hydrazide
 (CA INDEX NAME)



RN 94207-02-0 CAPLUS
 CN Benzoic acid, 3-nitro-, 2-[1-(4-chlorophenyl)-2-(hydroxyimino)propylidene]hydrazide (CA INDEX NAME)



RN 94671-90-6 CAPLUS
 CN Benzoic acid, 3-nitro-, 2-[2-(hydroxyimino)-1-(4-methylphenyl)ethylidene]hydrazide (CA INDEX NAME)



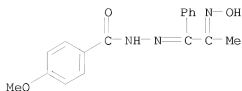
L4 ANSWER 21 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1962:423229 CAPLUS
 DOCUMENT NUMBER: 57:23229
 ORIGINAL REFERENCE NO.: 57:4662i,4663a-i,4664a-d
 TITLE: Synthesis of some 1,2,4-triazines
 AUTHOR(S): Atkinson, C. M.; Cossey, H. D.
 CORPORATE SOURCE: Chelsea Coll. Sci. Technol., London

SOURCE: Journal of the Chemical Society (1962) 1805-11
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
OTHER SOURCE(S): CASREACT 57:23229

AB A wide variety of 1,2,4-triazines has been synthesized by the cyclization of acylhydrazones of α -diketones by NH₄OAc (I) in hot AcOH under controlled conditions. The scope of the reaction has been extended by the use of unsym. α -diketones and components of the resulting mixts. of triazines have been separated and identified. Spectroscopic evidence on the structure of some dihydro-1,2,4-triazines is presented. Bz2 and the appropriate acid hydrazide (equimolar amts.) in AcOH treated with a 10-fold excess of I, refluxed, cooled, and filtered directly or after dilution with H₂O gave the corresponding 3-substituted 5,6-diphenyl-1,2,4-triazine (II). Bz2 (10 g.) and 2.4 g. HCONHNH₂ (III) in 50 cc. AcOH refluxed 4 hrs. with 36 g. I, filtered from 0.35 g. yellow solid, m. 205-30°, and poured into H₂O, and the yellow sticky precipitate (9.1 g.) extracted with boiling ligroine (b. 60-80°) left a yellow oily residue which chromatographed on 75 g. Al₂O₃ gave 15 mg. solid, m. 213-14°, and 170 mg. solid, m. 211-12°; the ligroine extract treated with cooling with dry HCl and filtered, the residue shaken with 6N NaOH and Et₂O, and the residue (5.2 g.) from the Et₂O layer chromatographed from 25 cc. C₆H₆ on 150 g. Al₂O₃ yielded 25 mg. needles, m. 196-7° (EtOH), 0.59 g. 3-Me derivative (IV) of 5,6-diphenyl-1,2,4-triazine (V), m. 212-4° (ligroine), 60 mg. colorless prisms, m. 211-12°, and 0.58 g. V, m. 117° (EtOH and sublimed); the ligroine-HCl mother liquor shaken with alkali and evaporated, and the yellow residue, m. 118-20°, chromatographed on 15 g. Al₂O₃ yielded 40 mg. needles, m. 213-14° (ligroine), 30 mg. needles, m. 196-7°, and 20 mg. needles, m. 211-12°. By the general method were prepared the following compds. II (3-substituent, reaction time in hrs., cc. AcOH used/g. Bz2, % yield, and m.p. given): p-MeOC₆H₄, 4, 2.5, 75, 159-60° (AcOH); p-BrC₆H₄, 72, 8, 70, 140-1° (EtOH); p-ClC₆H₄, 24, 5, 53, 152-3° (AcOH); -O₂NC₆H₄, 4, 4, 56, 194° (AcOH); m-O₂NC₆H₄, 4, 4, 71, 195° (AcOH); p-O₂NC₆H₄, 4, 4, 71, 201° (AcOH); p-HOC₆H₄, 4, 10, 48, 262-3° (EtOAc); o-H₂NC₆H₄, 0.5, 5, 60, 163-4° (EtOH); p-H₂NC₆H₄, 0.5 (in 90% AcOH), 5, 8 [3-(p-acetamidophenyl)-5,6-diphenyl-1,2,4-triazine was also obtained], 218-19° (aqueous MeOH); p-AcNHC₆H₄ (from paminobenzhydrazide), 8, 5, 83, 270 (AcOH); Me, 24, 4, 45, 92-4° (petr. ether) (1% 2,3,5-triphenylimidazole was also isolated); 3-pyridyl, --, 5, 60, 174-5° (MeOH); 4-pyridyl, --, 5, 62, 161-2° (EtOAc); 2-phenyl-4-quinolyl, 10, 65, 281-2° (EtOAc). 3-SH derivative (5 g.) of V in 500 cc. boiling EtOH treated with 10 g. Raney Ni, kept 10 min., filtered, and evaporated, the residual brown oil (3.5 g.) in CHCl₃ extracted with N Na₂CO₃ and then with 2N HCl, the acid extracted basified and extracted with CHCl₃, and the extract worked up gave 0.25 g. prisms, m. 234-6° (decomposition); the original CHCl₃ solution and the brown oily residue triturated with ligroine, dissolved in 250 cc. C₆H₆, and chromatographed on 100 g. Al₂O₃, yielded 0.12 g. V, m. 117°, 0.14 g. needles, m. 225-7°, and 0.13 g. needles, m. 234-6°; the ligroine extract evaporated, and the residue sublimed at 110-20°/0.1 mm. gave an addnl. 0.35 g. V. Bz2 (10.5 g.), 3 g. III, and 100 cc. 90% HCO₂H heated 4 hrs. with 31 g. HCO₂NNH₄, cooled, and filtered yielded 5.7 g. bisbenzil azine, yellow needles, m. 203-4° (AcOH). ACBz (25 g.) and 23 g. BzNHNH₂ in 250 cc. AcOH refluxed 8 hrs. with 130 g. I, poured into H₂O, and filtered, and the residue chromatographed on 750 g. Al₂O₃ yielded 6.3 g. 5-methyl-3,6-diphenyl-1,2,4-triazine (VI), m. 123-4°, and 3.3 g. 6-methyl-3,5-diphenyl-1,2,4-triazine (VII), m. 109-10°; the mother liquors evaporated, and the residue combined with the oily fractions and

chromatographed on 500 g. Al₂O₃ yielded 0.4 g. VI and 3.7 g. VII. Benzoylhydrazone (3 g.) of AcBz in 20 cc. AcOH heated 4 hrs. with 8.7 g. I, cooled, and worked up gave 10% VI and 28% VII. AcBz (5 g.) and 5.6 g. p-MeOC₆H₄CONHNH₂ (VIIa) in 50 cc. AcOH heated 8 hrs. with 26 g. I, poured into iced H₂O, and filtered, and the residue (7.7 g.) extracted with ligroine left a yellow residue, m. 164-9°; the extract deposited 3.75 g. 3-(p-methoxyphenyl)-6-methyl-5-phenyl-1,2,4-triazine (VIII), yellow needles, m. 122-3°; the residue, m. 164-9°, crystallized from MeOH gave 0.5 g. 3-(p-methoxyphenyl)-5-methyl-6-phenyl-1,2,4-triazine (IX), yellow needles, m. 169-70°. α-Hydroxyiminopropiophenone (X) (5.0 g.) and 5.1 g. VIIa in 20 cc. AcOH heated 1 hr. and cooled yielded 8.6 g. (crude) p-methoxybenzoylhydrazone (XI) of X, needles, m. 191-2°, which refluxed with 0.1N HCl and EtOH gave X, m. 114-15°. I (7.1 g.) and 3 g. XI in 30 cc. AcOH refluxed 4 hrs., cooled, and poured into H₂O gave 1.05 g. (crude) IX, pale yellow plates, m. 169-70° (ligroine). X (5 g.) and 5 g. VIIa in 200 cc. AcOH heated 2 hrs., cooled, treated with I, refluxed again 8 hrs., cooled, poured into H₂O, and filtered, the residue extracted with boiling ligroine, and the extract concentrated to beginning crystallization gave 0.9 g. IX; the mother liquor yielded 0.05 g. VIII, m. 121-2° (MeOH). α-(p-Methoxybenzamido)propiophenone (XII) (7.4 g.) and 1.5 g. 98% N₂H₄.H₂O in 100 cc. EtOH heated 8 hrs. with 7.0 cc. concentrated HCl, concentrated to half volume, diluted with H₂O, basified with NH₄OH, and filtered yielded 3.75 g. 2(or 4), 5-dihydro-3-(p-methoxyphenyl)-5-methyl-6-phenyl-1,2,4-triazine (XIII), needles, m. 196-8° (MeOH). XIII (2 g.) in 100 cc. refluxing Me₂CO treated during 2 hrs. with 2% aqueous KMnO₄, and the resulting solid dissolved in AcOH and poured into H₂O gave 1.6 g. IX; the aqueous AcOH phase basified with NH₄OH gave 0.12 g. unchanged XIII. α-Benzamido-propiophenone (10 g.) and 2 g. N₂H₄.H₂O in 100 cc. EtOH refluxed 8 hrs. with concentrated HCl, cooled, diluted with H₂O, and basified with NH₄OH yielded 9.7 g. (crude) 2(or 4),5-dihydro-5-methyl-3,6-diphenyl-1,2,4-triazine (XIV), needles, m. 194-5° (aqueous MeOH). XIV (2 g.) in 400 cc. refluxing Me₂CO treated during 4 hrs. with 400 cc. 2% aqueous KMnO₄ in portions gave 1.45 g. VI, yellow needles, m. 123-4° (ligroine). XIV (2.5 g.) in 50 cc. 50% aqueous AcOH added to 1 g. K₂Cr₂O₇ in 5 cc. H₂O, refluxed 2 hrs., and cooled gave 0.33 g. VI; the filtrate diluted with H₂O gave 0.05 g. VI and 1.65 g. unchanged XIV. 2(or 4),5-Dihydro-3,6-diphenyl-1,2,4-triazine (XV) (2 g.) in 200 cc. refluxing Me₂CO treated during 1 hr. with 100 cc. 5% KMnO₄ in portions yielded 0.5 g. 3,6-diphenyl-1,2,4-triazine (XVI), yellow needles, m. 156-7° (EtOH). XV (0.5 g.) heated 10 min. at 200°, cooled, dissolved in AcOH, and diluted with H₂O gave 0.06 g. XVI; the aqueous phase contained 0.25 g. unchanged XV, m. 195-8°. BzCH(NH₂)Et.SnCl₄ (21 g.) in 210 cc. cold H₂O treated with cooling with 14.7 g. p-MeOC₆H₄COCl and 63 g. KOH in 110 cc. H₂O, stirred, and extracted with Et₂O yielded 12 g. XII, prisms, m. 114-15°. XIV (1 g.) in 50 cc. absolute MeOH containing 1 g. Na and 5 g. Me₂SO₄ heated 24 hrs. at 150° in a sealed tube and evaporated, and the residue diluted with H₂O and filtered gave 0.85 g. XIV, m. 194-5°, and 0.1 g. VI, m. 123-4°. The ultraviolet absorption maximum of the various triazines, and the ultraviolet and infrared absorption maximum of the dihydrotriazines are tabulated.

IT 9318-93-0P, p-Anisic acid, (α-acetylbenzylidene)hydrazide, oxime
 RL: PREP (Preparation)
 (preparation of)
 RN 9318-93-0 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-[2-(hydroxyimino)-1-phenylpropylidene]hydrazide (CA INDEX NAME)



L4 ANSWER 22 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1962:53281 CAPLUS

DOCUMENT NUMBER: 56:53281

ORIGINAL REFERENCE NO.: 56:10076a-e

TITLE: Condensation of hydrazides with isonitroso ketones. II

AUTHOR(S): Giammanco, Lorenzo; Giambrone, Salvatore

CORPORATE SOURCE: Univ. Palermo, Italy

SOURCE: Annali di Chimica (Rome, Italy) (1961), 51, 777-84

CODEN: ANCRAI; ISSN: 0003-4592

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB cf. CA 55, 18725h. Four procedures were followed to prepare a total of 16 condensation products, RCONHN:CR'C(R''):NOH. A. Equimolar amts. of an isonitroso ketone and a hydrazide were mixed in 10 times their weight of EtOH and their weight of AcOH, the mixture heated 2 hrs., cooled, and the precipitate

filtered off and purified. B. The same as A without AcOH. C. The same as A up to cooling; the product was precipitated with acid after diluting with much

water and making alkaline with 10% KOH, decolorizing, and filtering. D. Reactants were heated sep. in 5 times their weight of EtOH and mixed. After several days at room temperature, the solvent was evaporated and the oily or solid

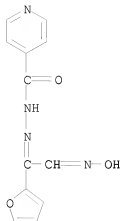
product purified. Two unreported isonitroso ketones were prepared 2-Acetylfuran (5.6 g.) was added to 1.15 g. Na in 30 ml. absolute EtOH, and with cooling with ice, 7 g. fresh amyl nitrite was added. After 12 hrs. at 0°, excess water was added and the mixture extracted with ether directly (or after saturation with CO₂) to give isonitroso-2-acetylfuran (I), m. 118-20° (ligroine). Isonitroso-2-acetylcoumarone (H), prepared as was I, m. 152° (dilute alc.). Similar products were prepared (hydrazide, isonitroso ketone, method, and m.p. of product given): isonicotinoyl (III), I, A, 215° (decomposition) (alc.); III, II, A, 230° (decomposition) (AcOH); III, diethyl ketone (IV), B, 228-30° (EtOH); III, benzylacetone (V), B, 225-8° (dioxane); acetyl (VI), IV, B, 175° (alc.); VI, V, C, 185-7° (alc.); VI, I, A, 168° (C₆H₆-alc.); α-methyl-α-isoxazolyl (VII), IV, A, 170° (alc.-C₆H₆); VII, V, A, 165° (decomposition) (alc.); VII, II, D, 196° (decomposition) (alc.); VII, I, C, 175-7° (C₆H₆); cyanoacetyl (VIII), acetone, B, 205° (decomposition) (alc.); VIII, methyl ethyl ketone, B, 190° (decomposition) (alc.); VIII, V, A, 170° (alc.); VIII, IV, B, 180-2° (alc.); VIII, I, -, 170° (alc.-C₆H₆). VIII was used owing to its strong tuberculostatic activity.

IT 96812-44-1

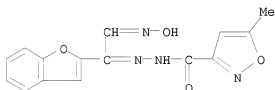
(Derived from data in the 7th Collective Formula Index (1962-1966))

RN 96812-44-1 CAPLUS

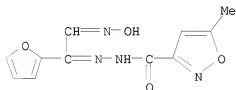
CN 4-Pyridinecarboxylic acid, 2-[1-(2-furanyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



IT 93721-81-4P, 3-Isoxazolecarboxylic acid, 5-methyl-,
 (2-benzofuranylformylmethylene)hydrazide, oxime 94625-39-5P,
 3-Isoxazolecarboxylic acid, 5-methyl-, (α -
 formylfurfurylidene)hydrazide, oxime
 RL: PREP (Preparation)
 (preparation of)
 RN 93721-81-4 CAPLUS
 CN 3-Isoxazolecarboxylic acid, 5-methyl-, 2-[1-(2-benzofuranyl)-2-
 (hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)

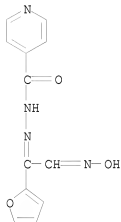


RN 94625-39-5 CAPLUS
 CN 3-Isoxazolecarboxylic acid, 5-methyl-, 2-[1-(2-furanyl)-2-
 (hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)



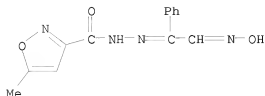
L4 ANSWER 23 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1962:53280 CAPLUS
 DOCUMENT NUMBER: 56:53280
 ORIGINAL REFERENCE NO.: 56:10075h-i,10076a
 TITLE: 6,6'-Bis(4-pyrones)
 AUTHOR(S): Stachel, H. D.
 CORPORATE SOURCE: Univ. Marburg/Lahn, Germany
 SOURCE: Angewandte Chemie (1961), 73, 736
 CODEN: ANCEAD; ISSN: 0044-8249
 DOCUMENT TYPE: Journal

LANGUAGE: Unavailable
 GI For diagram(s), see printed CA Issue.
 AB The title compds. were prepared by heating bis(dioxenones) (I) with enamines. Thus, I and Et β -piperidinocrotonate give II, λ_{maximum} 275 and 240 m μ (in MeOH). I and 1-piperidino-1-cyclohexene give III, λ_{maximum} 277 and 231 m μ (in dioxane).
 IT 96812-44-1
 (Derived from data in the 7th Collective Formula Index (1962-1966))
 RN 96812-44-1 CAPLUS
 CN 4-Pyridinecarboxylic acid, 2-[1-(2-furanyl)-2-(hydroxyimino)ethylidene]hydrazide (CA INDEX NAME)

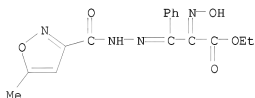


L4 ANSWER 24 OF 26 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 1961:99450 CAPLUS
 DOCUMENT NUMBER: 55:99450
 ORIGINAL REFERENCE NO.: 55:18726a-c
 TITLE: Synthesis of four geometric isomers of 1,2,3-trimethyl-4-phenyl-4-piperidinol
 AUTHOR(S): Mistryukov, E. A.; Shvetsov, N. I.
 CORPORATE SOURCE: N. D. Zelinskii Inst. Org. Chem., Moscow
 SOURCE: Izvestiya Akademii Nauk SSSR, Seriya Khimicheskaya (1961) 292-4
 CODEN: IASKA6; ISSN: 0002-3353
 DOCUMENT TYPE: Journal
 LANGUAGE: Unavailable
 AB cf. CA 53, 21946b. 1,2,3-Trimethyl-4-piperidinone and PhLi gave mainly the α -isomer of 1,2,3-trimethyl-4-phenyl-4-piperidinol, m. 143-5° (least soluble in MePh); a lesser amount of the β -isomer, m. 118-19°, was isolated from the mother liquors. α -Isomer HCl salt m. 180-3°; β -isomer HCl salt m. 190-5°. The reaction gave a low yield of the γ -isomer, m. 96-7°; HCl salt m. 248°. Treatment of the α -isomer with dry HCl, followed by SOCl₂, in CHCl₃ (3 h. at reflux) and treatment of the product with aqueous NaOH gave a dehydration product, b2 110-15°, which was treated with HBr in AcOH overnight and then treated with aqueous NaOH to yield 25% γ -isomer of 1,2,3-trimethyl-4-phenyl-4-piperidinol, b2 132-40°, m. 109-11°.
 IT 100725-09-5P, Hydrazine, 1- α -formylbenzylidene-2-(5-methyl-3-isoxazolylcarbonyl)-, oxime 856640-00-1P, Hydrocinnamic acid, α,β -dioxo-, ethyl ester, α -oxime, (5-methyl-3-isoxazolylcarbonyl)hydrazone
 RL: PREP (Preparation)

(preparation of)
 RN 100725-09-5 CAPLUS
 CN 3-Isoxazolecarboxylic acid, 5-methyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)



RN 856640-00-1 CAPLUS
 CN 3-Isoxazolecarboxylic acid, 5-methyl-, 2-[3-ethoxy-2-(hydroxyimino)-3-oxo-1-phenylpropylidene]hydrazide (CA INDEX NAME)



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L5 1 100725-09-5/RN

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L5 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN

RN 100725-09-5 REGISTRY

ED Entered STN: 08 Mar 1986

CN 3-Isoxazolecarboxylic acid, 5-methyl-, 2-[2-(hydroxyimino)-1-phenylethylidene]hydrazide (CA INDEX NAME)

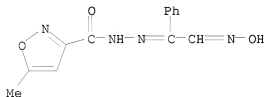
OTHER CA INDEX NAMES:

CN 3-Isoxazolecarboxylic acid, 5-methyl-, α -formylbenzylidenehydrazide, oxime (6CI)

MF C13 H12 N4 O3

SR CAOLD

LC STN Files: CA, CAOLD, CAPLUS



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